

RAPRA CLASSIFICATION CODE

RAPRA ABSTRACTS CATEGORY CODES

ADHESIVES ABSTRACTS CATEGORY CODES

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1. RAPRA CLASSIFICATION CODE

CODE FOR THE SYSTEMATIC CLASSIFICATION OF SCIENTIFIC, TECHNOLOGICAL AND COMMERCIAL INFORMATION ON POLYMERS

1.1 INTRODUCTION

Over the past twenty years, Rapra Technology Limited has developed a computer database for use by the rubber and plastics industries, together with the necessary thesaurus.

Prior to this development, a suitable system of classification by subject was essential for the provision of efficient information and library services by Rapra. A Classification Code was developed which, although it has required numerous revisions over the years in order to keep pace with changes in industry and advancing technology, is still in use today, despite the recent development of computerised systems. The Classification Code presently in use, details of which are given in this chapter, plays an essential part in the process of information transfer carried out at Rapra on behalf of the rubber and plastics industries.

The original version of the code for the systematic classification of scientific, technological, and commercial information on rubber was devised by the late T.R. Dawson for the use of the Information Centre of the Research Association of British Rubber Manufacturers (RABRM), known today as Rapra Technology Limited. It was based on the extensive collection of information already on file and was first published in the *Journal of Rubber Research*, 1937, Vol. 6, p. 67-132, together with a discussion of the philosophy of classification and an appraisal of other systems available at that time. A completely revised edition of the code, which had become known as the Dawson Code, was published by the RABRM in the *Journal of Rubber Research*, 1942, Vol.11, p.2365.

The next major revision of the code was carried out by the International Committee for Classification of Rubber Information (ICCRI). This committee was convened by the Institut Francais du Caoutchouc, the Rubber-Stichting, and the RABRM. The revised code was published in 1952 as RABRM Information Bureau Circular No.410 and was adopted for general use by all three organisations.

In the early 1960's Rapra widened the scope of its information service to incorporate all plastics and, as a result of this change, once again faced the necessity to revise its system of classification. Following an investigation of other available systems and the system in use at Rapra at that time, the decision was taken to develop a new code, which was published in 1964 (Rapra/7316). Rapra wishes to acknowledge the collaboration of the British Plastics Federation and other industrial organisations who contributed to the development of this code. Despite the many changes made over the years, those interested in the fundamentals of classification will easily detect the underlying philosophy common throughout the various editions of classification codes used by Rapra.

In the intervening years since 1964 many amendments and improvements have been developed and these have been incorporated into this 1994 edition of the Rapra Classification Code. New classification codes are indicated in the margin. It should be noted however that abstracts are not retrospectively indexed and so use of these new codes will only retrieve articles abstracted from 1994 onwards. Given below is a list of these new codes, together with an indication, where possible, of where such topics would previously have been classified.

1(10)	ENVIRONMENTAL ISSUES (including life-cycle analysis, cradle-to-grave analysis, ecobalances etc.) Previously 122, 184 or 8(13)
28(13)5	Incinerators. Previously 1832, 28(13) or 8(13)21
33C6	Polyols. Previously 33C or 43C6
42C214	Polyhydroxystyrene and polyvinyl phenol. Previously 44C or 42W

43J	Polyaniline. Previously 42C3(11) or 44D
43K	Polypyrrole. Previously 42C3(11) or 42W
6221	Microcapsules. Previously 6121, 6M or 9(11)
6E4(15)	Computers, business machines etc. Previously 6D16 or 6E4
722214	Regiospecific catalysts. Previously 72221
722215	Metathesis catalysts. Previously 72221
825	Pultrusion. Previously 82
826	Coextrusion. Previously 82
8(13)5	Incineration. Previously 1832, 28(13) or 8(13)21
8(13)6	Depolymerisation, chemical recycling. Previously 8(13)
969	Thermodynamic properties. Previously 96
992(12)	Neutron scattering etc. Previously 992
992(13)	Fluorescence spectra. Previously 992
993	Non-linear optical properties. Previously 99

1.2 GUIDE TO THE USE OF THE CODE

The code employs a mixed notation of numbers and letters for the identification of classes and is arranged in a decimal order, with numbers taking precedence over letters. Any number of subdivisions may be made in any one class by the use of brackets round the subdividing digits. For example: Class 8, Processing and Treatment, is divided into thirteen sub-classes
i.e., 81..... 89..... 8(13) .

1.2.1 POLYMER CLASSES

(a) Coding of addition copolymers

Class numbers are derived from the table of addition polymers 42, the class number of the chief comonomer being given first followed by the class numbers for the remaining comonomers placed in classification order. The class number 42 for the table of addition polymers need not be repeated before the number for the second and any further comonomers.

For example

42C131D12	Butyl rubber
42C21C391D11	Styrene-acrylonitrile-butadiene terpolymer
42D11C21	Butadiene-styrene copolymer
42D11C391	Butadiene-acrylonitrile copolymer

If the chief comonomer only is known a letter A follows the class number for that comonomer, e.g.

42C382A Vinyl chloride copolymers

If a component is known to be grafted then a letter G is placed before the class number for the grafted monomer, e.g.

42C21GC11 Polystyrene-ethylene graft copolymer

(b) Linking of natural, addition, elimination, and inorganic polymers (classes 41, 42, 43, 44 and 45)

To link tables 41, 42, 43, 44 and 45 a letter B is placed before the class number for each component other than the first, and the numbers 41, 42, 43, 44 or 45 are retained before the second and any further components. The class number of the chief component is given first followed by the class numbers for the remaining components placed in classification order. If a component is known to be grafted then the letter B is replaced by the letter G. For example:

41C1G42C35121 Natural rubber/methyl methacrylate
(Heveaplus MG)

Where the chief comonomer is not known the class numbers for the components are placed in classification order.

1.2.2 LINKING OF MAIN CLASSES

When formulating a classification the class codes are separated by a semi-colon or a hyphen. Semi-colons and hyphens have the same meaning. For example,

(i) Properties of butadiene-styrene copolymers

42D11C21;9

(ii) Properties of butadiene-styrene passenger car tyres reinforced with carbon black

42D11C21;51B;6T11;9

butadiene styrene carbon black passenger car tyres properties

The order in which the classification codes are placed is not important.

Supplementary subdivisions for parts of machines and forms of machines are provided in the schedule of class 2.

1.2.3 ACCESSORIES

Accessories to the applications denoted in the following schedules, which have not been allocated specific class numbers, are indicated by placing, without the insertion of a hyphen or semi-colon, the number 0 at the end of the class numbers for the applications to which they apply. The number 0 may be used in this way throughout all the schedules except after Class 6T1, Types of Pneumatic Tyres and Class 8, Processing and Treatment.

1.3 THE RAPRA CLASSIFICATION CODE

MAIN CLASSES

- 0 GENERAL
- 1 INDUSTRIAL ORGANISATION AND ADMINISTRATION; ECONOMICS
- 2 MACHINERY, PLANT, TEST EQUIPMENT AND INSTRUMENTS
- 3 RAW MATERIALS, INCLUDING MONOMERS
- 4 POLYMERS AND RESINS
- 5 COMPOUNDING INGREDIENTS AND SOLVENTS
- 6 APPLICATIONS OF POLYMERS
- 7 DESIGNS; STANDARDS AND SPECIFICATIONS; SOURCES AND PRODUCTION
- 8 PROCESSING AND TREATMENT
- 9 PROPERTIES AND TESTING

0 GENERAL**01 GENERAL WORKS BY FORM**

- 011 Text books, reference books
- 012 Reports, lectures, papers etc., including annual collections and reviews, general essays, collections of conference papers
- 013 Periodicals
- 014 Directories and year books with directory sections
- 015 Bibliographies and similar listings, including patent reviews and lists of trade names
- 016 Dictionaries, glossaries, definitions, lists of abbreviations
- 017 Listings and collections of films and slides

02 HISTORY (*for history of a particular subject see the subject itself e.g. for history of pneumatic tyres see 6T1*)**03 RESEARCH THEORY** (*for research organisations see 09; for organisation of research see 11*)**04 EXHIBITIONS AND CONFERENCES**

- 041 Conferences (*for collections of conference papers and proceedings see 012*)

05 LIBRARY AND INFORMATION SERVICES, INCLUDING CLASSIFICATION AND TRANSLATION**06 INDIVIDUAL COMPANY INFORMATION*****07 COMMERCIAL DEVELOPMENTS, EXCLUDING DEVELOPMENT OF PRODUCTS**

- 07M Mergers and takeovers
- 07P Plant expansions

08 COMMERCIAL DEVELOPMENTS, INCLUDING PLANT EXPANSION, FOR PRODUCTS*09 ASSOCIATIONS, INSTITUTIONS, GOVERNMENT DEPARTMENTS, LOCAL AUTHORITIES, ETC.****0(10) BIOGRAPHICAL INFORMATION**

NB *Classes 07 and 08 have been incorporated into 06 and are no longer in use.

-
- 1 INDUSTRIAL ORGANISATION AND ADMINISTRATION; ECONOMICS**
- 11 PRODUCTION ORGANISATION AND PLANNING, INCLUDING RESEARCH AND DEVELOPMENT (for general information on research and development see 03)**
- 111 Factory type and site: location
 - 112 Factory layout, automation
 - 1121 Automation, flow lines
 - 113 Productivity studies; time and motion studies
 - 114 Quality control
 - 115 Computer aided design and manufacture, product design etc. (from 1986)
- 12 ANCILLARY WORKS' PROCESSES, SERVICES AND MAINTENANCE**
- 121 Power, heat, and water supply, refrigeration, cooling, energy conservation
 - 122 Drainage, effluent treatment, smoke abatement, pollution, waste and scrap
(for statistics on waste and scrap see 1744; for law on pollution see 184; for waste reclamation see 8(13))
 - 123 Conditioning; illumination, warmth, humidity, ventilation, dust and solvent extraction, use of colour, noise control
 - 124 Measuring, weighing; thickness micrometers, metrication
 - 125 Storage and storing, handling, transport, fluidisation
 - 126 Packing of products
- 13 ADMINISTRATION AND SALES DEPARTMENTS' ORGANISATION AND ADMINISTRATION; FINANCING; COMPUTER INSTALLATION; FACTORING; BUSINESS PRACTICE**
- 131 Purchasing; leasing of machinery
 - 132 Costs, costing, accounting
 - 1321 Production costs
 - 133 Investment, capital expenditure, profits, earnings, insurance of goods, price control and policies, financing, budgetary control
 - 134 Management; added value (measuring of company performance)
 - 1341 Credit terms (for credit trading see 16621)
 - 1342 Exporting (for statistics on exporting see 17 and subdivisions of 17; for law on exporting see 1833)
 - 135 Business practice; general business information; web sites
- 14 PERSONNEL, INCLUDING STATISTICS**
- 141 Employment, hours of work, holidays
 - 142 Wages, salaries, and other remuneration; pensions, insurance
 - 1421 Wages and salaries
 - 143 Training and education, qualifications, job descriptions, employee selection
 - 1431 Scientific and technical training
 - 144 Ergonomics, industrial skill, fatigue (for productivity see 113)
 - 145 Industrial psychology and welfare work; industrial relations (for works conditioning see 123)
- 15 INDUSTRIAL DISEASES, ACCIDENTS, HAZARDS, AND INDUSTRIAL SAFETY, INCLUDING STATISTICS (replaced by class 921 from 1977 onwards, except for statistics)**
- 151 Industrial diseases (for toxic effects of specific materials see toxicity of the material e.g. for toxicity of solvents see 58;921; for law relating to health hazards, injuries etc. see 1832)
 - 152 Accidents; accident prevention, protective devices in general
 - 153 Other hazards, including fire, explosions, noise (for noise control see 123)
 - 1531 Fire, fire tests
 - 1532 Explosions

-
- 1533 Industrial espionage
 - 16 MARKETING, FORECASTING, MARKET SURVEYS**
 - 162 Machinery
 - 16213 Price, factors affecting price, conditions of sale
 - 163 Raw materials, including monomers
 - 16313 Price, factors affecting price, conditions of sale
 - 164 Polymers
 - 1641 Natural rubbers and resins
 - 16411 Markets and their attributes
 - 16412 Marketing methods, techniques
 - 16413 Price, factors affecting price, conditions of sale
 - 1642 Synthetic polymeric materials
 - 16421 Markets and their attributes
 - 16422 Marketing methods, techniques
 - 16423 Price, factors affecting price, conditions of sale
 - 165 Compounding ingredients and solvents
 - 16513 Price, factors affecting price, conditions of sale
 - 166 Polymer applications
 - 1661 Markets and their attributes
 - 1662 Marketing methods, techniques
 - 16621 Financial aspects; credit, hire-purchase, guarantees, discounts, credit trading
 - 16622 Consumer approach; advertising, sales services
 - 1663 Price, price lists, price indices, factors affecting price, conditions of sale
 - 1664 Quality, technical character of goods in relation to sales, industrial art and design
 - 17 STATISTICS; ECONOMIC INFORMATION; GENERAL ECONOMIC AND COMMERCIAL
CONDITIONS AND DEVELOPMENT; IMPORT AND EXPORT FIGURES**
*(for statistics on personnel see 14; for statistics on industrial diseases, accidents and hazards
see 15; for law relating to imports and exports see 1833)*
 - 171 Energy requirements
 - 172 Machinery, tools, test equipment
 - 173 Raw materials, including monomers; petrochemicals
 - 174 Polymers
 - 1741 Natural rubbers and resins
 - 1742 Synthetic polymeric materials
 - 1744 Reclaim and scrap; waste rubbers and plastics
 - 1745 Fibres and fabrics
 - 175 Compounding ingredients and solvents, excluding reclaim
 - 176 Polymer applications, manufactured and semi-manufactured products, excluding fibres
and fabrics
 - 177 Non-polymeric products associated with the end use of polymeric materials,
e.g. vehicles, carpets
 - 18 LAW**
 - 181 Technological; appertaining to manufacture and processes and to technical features of goods
 - 182 Industrial property
 - 1821 Patents
 - 1822 Designs
 - 1823 Commodity marks
 - 18231 Trade marks, trade names
 - 18232 National and other quality marks, ecolabelling
 - 18233 Merchandise marks
 - 1824 Copyright
 - 183 Commercial, other

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- 1831 Law concerning organised bodies, company law, levies for research etc., taxation, purchase tax, VAT, consumer credit, company insurance including fire insurance, product liability
- 1832 Law concerning personnel: wages, insurance, personal income tax, compensation, pensions, holidays, discrimination, health hazards, accidents, consumer protection, etc.
- 1833 Law relating to marketing; trade regulation (other than commodity marks), regulations relating to import and export trade, tariffs, export insurance
- 184 Law relating to the environment; pollution, poisonous waste, etc.

19 LONG RANGE PLANNING; TECHNOLOGICAL FORECASTING
(for market forecasts see 16)

- | **1(10) ENVIRONMENTAL ISSUES**
including life-cycle analysis, cradle-to-grave analysis, ecobalances etc. (from 1994)

2 MACHINERY, PLANT, TEST EQUIPMENT AND INSTRUMENTS

The majority of the subdivisions for this class are formed by using the relevant classes from other sections of the code.

Subdivisions derived from class 8 (Processing and Treatment) together with supplementary subdivisions for parts of machines, e.g. dies, and forms of machines, e.g. twin screw extruders, are indicated in the schedules 281 to 28(21) given below.

Further subdivisions for class 2 may be derived as follows:

- (i) From classes 3, 4 and 5 - Raw Materials, Polymers, Compounding Ingredients; equipment for their manufacture: 2 + class no. from 3, 4 or 5
e.g. plant for the manufacture of polybutadiene = 242D11
- (ii) From class 6 - Applications of Polymers; equipment for manufacture:
2 + class no. from 6 (+ type of machine derived from class 8 if required)
e.g. passenger-car tyre machinery = 26T11
builders for passenger-car tyres = 26T11;8(11)2
- (iii) From class 9 - Properties and Testing; equipment for:
2 + class no. from 9
e.g. electron microscope = 29912T

281 PRELIMINARY PROCESSES - EQUIPMENT (subdivisions derived from 81)

- 2811 BALE CUTTERS
- 2812 POWDER PROCESSING EQUIPMENT
- 28121 Grinders
- 28122 Pelletisers
- 28123 Sieves
- 2813 MIXERS, MASTICATORS, MILLS
- 28131 Open mills
- 28132 Internal mixers
- 28133 Solution and dough mixers, non-aqueous
- 28134 Latex mixers, aqueous
- 2814 HEATING DEVICES FOR USE DURING COMPOUNDING
- 2815 GRANULATORS
- 2816 BLANK CUTTERS
- 2817 PREFORMERS
- 2818 HEATING, PREHEATING, AND COOLING EQUIPMENT
- 28181 Hot oven
- 28182 Steam
- 28183 Radio frequency
- 2819 DRYING AND DEGASSING EQUIPMENT
- 281(10) LINERS

282 EXTRUDERS (subdivisions of 82 may not be used to subdivide this class)

- 2821 SINGLE SCREW
- 2822 TWIN SCREW
- 2823 MULTIPLE SCREW

- 2824 RAM EXTRUDERS
- 2825 DIES
 - 28251 In line
 - 28252 Cross head
 - 28253 For tubular film
 - 28254 For parisons
 - 28255 Slit dies
 - 28256 Spinnerettes
- 2826 HEATING AND COOLING SYSTEMS
- 2827 TAKE OFF SYSTEMS
- 2828 CUTTING EQUIPMENT
- 283 MOULDING AND VULCANISING EQUIPMENT** (*subdivisions in part only derived from 83; for other vulcanising equipment see 289*)
 - 2831 INJECTION MOULDING MACHINES
 - 28311 Ram
 - 28312 Screw
 - 283121 Preplasticisers
 - 283122 Reciprocating screw
 - 283123 Complete screw
 - 28313 Moulds
 - 283131 Single cavity
 - 283132 Multiple cavity
 - 283133 Rotating table
 - 2832 BLOW MOULDING MACHINES
 - 28321 Moulds
 - 283211 Rotating, on continuous belt
 - 2833 TRANSFER MOULDING MACHINES
 - 2834 COMPRESSION MOULDING MACHINES
 - 28341 Moulds
 - 283411 Rotating table (in Tavannes machine)
 - 2835 ROTATIONAL AND SLUSH MOULDING MACHINES
- 284 CALENDERS** (*subdivisions of 84 may not be used to subdivide this class; for coating calenders see 2872*)
 - 2841 ROLLS
- 285 FORMING FROM SHEET - EQUIPMENT** (*subdivisions of 85 may not be used to subdivide this class; for equipment for forming of laminates see 2626;85*)
 - 2851 HEATERS
 - 2852 MOULDS
 - 28521 Single cavity
 - 28522 Multiple cavity
 - 2853 FOR CONTINUOUS AUTOMATIC OPERATION
- 286 EQUIPMENT FOR OTHER SHAPING PROCESSES** (*subdivisions derived from 86 except where indicated below*)
 - 2861 CASTING EQUIPMENT (*subdivisions of 861 may not be used to subdivide this class*)
 - 28611 Moulds
 - 286111 Flexible
 - 286112 Glass
 - 2862 SINTERING EQUIPMENT
 - 2863 DIPPING EQUIPMENT
 - 2864 EQUIPMENT FOR ELECTRODEPOSITION OF POLYMERS

2865 SPRAYING EQUIPMENT, e.g. multiple nozzles (*for multiple nozzles for spraying expanded polyurethane see 243C6;6124;865*)

287 COATING AND IMPREGNATING EQUIPMENT (*subdivisions derived from 87*)

2871 EXTRUDERS
2872 CALENDERS
2873 SPREADERS
2874 DIPPING EQUIPMENT
2875 FLUIDISED BEDS
2876 SOLUTION EQUIPMENT
2877 SPRAYING EQUIPMENT
28771 Cocooning equipment

288 LAMINATING EQUIPMENT (*subdivisions in part only derived from 88*)

2881 PRESSES (*for presses for laminating reinforced plastics see 2627;88*)
2882 FOR FILAMENT WINDING

289 VULCANISATION EQUIPMENT (*subdivisions derived from 89; for moulding and vulcanisation equipment see 283*)

2891 OPEN STEAM
2892 HOT AIR
2893 FLUID BED
2894 LIQUID BATH
2895 IRRADIATION EQUIPMENT
28951 Radio frequency
28952 X-rays
28953 High energy radiation
2896 ROOM TEMPERATURE CURING EQUIPMENT
28961 Sulphur chloride
28962 Other chemical cures

28(10) BONDING, WELDING, AND HEAT SEALING EQUIPMENT (*subdivisions derived from 8(10)*)

28(10)2 JOINING OF POLYMER TO ITSELF
28(10)21 Stitching, e.g. sewing machines
28(10)22 Solvent welding
28(10)23 Bonding, cementing
28(10)24 Heat sealing
28(10)241 Radio frequency welding
28(10)3 TO OTHER POLYMERS NOT IN TEXTILE FORM
28(10)4 TO TEXTILES, INCLUDING POLYMERS IN TEXTILE FORM
28(10)42 Cotton
28(10)43 Rayon
28(10)44 Nylon
28(10)45 Terylene
28(10)46 Glass fibre
28(10)5 TO METALS
28(10)52 Treatment of the metal, including brass plating
28(10)53 Treatment of the polymer, including cyclisation (*for cyclisation in general see 6116*)
28(10)6 TO GLASS
28(10)7 TO WOOD

28(11) FABRICATING EQUIPMENT (*subdivisions derived from 8(11)*)

28(11)1 MACHINE TOOLS
28(11)11 Saws

28(11)12 Slicing equipment

28(11)2 BUILDERS FOR TYRES, HOSE, FOOTWEAR, ETC.

28(11)3 FINISHING EQUIPMENT

28(11)31 Annealing, heat-setting, conditioning

28(11)32 Orientation equipment

28(11)33 Flash removal

28(11)331 Freezing equipment

28(11)332 Cutters and grinders

28(11)34 Surface treatment equipment

28(11)341 Polishers

28(11)3411 Tumblers

28(11)342 Dusting applicators

28(11)343 Fire proofing

28(11)344 Anti-static coating

28(11)345 Adhesion improvement equipment

28(11)346 Decorating and printing equipment

28(11)3461 Embossing and ornamenting, other than by calendering

28(11)3462 Painting and varnishing

28(11)3463 Printing

28(11)34631 Hot stamping

28(11)34632 Silk screens

28(11)3464 Metal coating

28(11)3465 Flock coating

28(11)347 Care and maintenance, e.g. cleaners and sterilisers

28(11)35 Cold rolling equipment

28(12) REPAIRING AND RETREADING (*subdivisions derived from 8(12)*)

28(12)1 REPAIR EQUIPMENT

28(12)2 RETREADING EQUIPMENT

28(13) EQUIPMENT FOR RECLAIMING OF POLYMERS (*subdivisions derived from 8(13)*)

28(13)1 DEBEADING EQUIPMENT

28(13)2 DIGESTING EQUIPMENT

28(13)21 Thermal treatment, e.g. Reclaimator process

28(13)22 Acid treatment

28(13)23 Alkali treatment

28(13)24 Neutral treatment

28(13)3 BLENDING AND SCREENING EQUIPMENT

28(13)5 INCINERATORS (from 1994)

28(21) CONTROL EQUIPMENT

3 RAW MATERIALS, INCLUDING MONOMERS**32 UNSATURATED COMPOUNDS****32C CONTAINING ONE OLEFINIC DOUBLE BOND**

- 32C1 Olefins, aliphatic
 - 32C11 Ethylene
 - 32C12 Propylene
 - 32C13 Butylene
 - 32C131 Isobutylene
- 32C2 Olefins, aromatic
 - 32C21 Styrene
 - 32C211 Methyl styrene
 - 32C212 Vinyl toluene
 - 32C22 Indene
 - 32C23 Coumarone
 - 32C24 Vinyl naphthalene
 - 32C25 Acenaphthylene
- 32C3 Substituted olefins, aliphatic
 - 32C31 Alcohols
 - 32C311 Vinyl alcohol
 - 32C312 Allyl alcohol
 - 32C32 Vinyl acetals
 - 32C33 Esters of saturated acids
 - 32C331 Vinyl esters
 - 32C3311 Vinyl acetate
 - 32C3312 Vinyl benzoate
 - 32C332 Allyl esters
 - 32C34 Unsaturated acids and anhydrides
 - 32C341 Monobasic
 - 32C3411 Acrylic acid
 - 32C3412 Methacrylic acid
 - 32C3413 Chloroacrylic acid
 - 32C342 Dibasic
 - 32C3421 Maleic acid
 - 32C34211 Maleic anhydride
 - 32C3422 Fumaric acid
 - 32C35 Esters of unsaturated acids
 - 32C351 Monobasic acid esters
 - 32C3511 Acrylic esters
 - 32C35111 Methyl acrylate
 - 32C35112 Ethyl acrylate
 - 32C3512 Methacrylic esters
 - 32C35121 Methyl methacrylate
 - 32C35122 Ethyl methacrylate
 - 32C3513 Chloroacrylic esters
 - 32C352 Dibasic acid esters
 - 32C3521 Maleic esters
 - 32C3522 Fumaric esters
 - 32C36 Ethers
 - 32C361 Vinyl ethers, e.g. chlorovinyl ether
 - 32C362 Allyl ethers
 - 32C37 Aldehydes and ketones
 - 32C371 Acrolein
 - 32C372 Methacrolein

- 32C38 Halides
 - 32C381 Vinyl fluoride
 - 32C382 Vinyl chloride
 - 32C383 Vinyl bromide
 - 32C386 Vinylidene fluoride
 - 32C387 Vinylidene chloride
 - 32C388 Trihaloethylenes
 - 32C389 Tetrafluoroethylene
 - 32C38(10) Trifluorochloroethylene
 - 32C38(11) Hexafluoropropylene
- 32C39 Nitriles
 - 32C391 Acrylonitrile (vinyl cyanide), methacrylonitrile
 - 32C393 Vinylidene cyanide
- 32C3(10) Amides
 - 32C3(10)1 Acrylamide, methacrylamide
- 32C3(11) Nitrogen containing vinyl compounds - cyclic
 - 32C3(11)1 Vinyl pyridines
 - 32C3(11)2 Vinyl lactams
 - 32C3(11)21 Vinyl pyrrolidone
- 32C4 Substituted olefins, aromatic (*for methylstyrene see 32C211*)
 - 32C41 Chlorostyrenes
 - 32C411 α -chlorostyrene
 - 32C412 Ring chlorinated styrene
- 32D CONTAINING TWO DOUBLE BONDS
 - 32D1 Diolefins, aliphatic
 - 32D11 Butadiene
 - 32D12 Isoprene
 - 32D13 Dimethyl butadiene
 - 32D14 Chloroprene, including fluoroprene and bromoprene
 - 32D15 Thiophene
 - 32D16 Cyclopentadiene
 - 32D2 Diolefins, aromatic
 - 32D21 Divinyl benzene
 - 32D3 Diesters of saturated acids and unsaturated alcohols
 - 32D31 Diesters of aliphatic acids
 - 32D32 Diesters of aromatic acids
 - 32D321 Diallyl phthalate
 - 32D4 Esters of unsaturated acids and unsaturated alcohols
 - 32D41 Allyl methacrylate
 - 32D5 Esters of unsaturated acids and glycols or higher alcohols
 - 32D51 Glycol dimethacrylate
- 32E CONTAINING MORE THAN TWO DOUBLE BONDS
 - 32E1 Triallyl cyanurate
- 32F CONTAINING TRIPLE BONDS
 - 32F1 Acetylene
 - 32F2 Propyne
- 32H CONTAINING DOUBLE AND TRIPLE BONDS
 - 32H1 Vinyl acetylene
- 32W NOT ELSEWHERE SPECIFIED
 - 32W1 Petroleum chemicals
 - 32W2 Vinyl metal compounds

33 SATURATED COMPOUNDS (COMPOUNDS NOT CONTAINING POLYMERISABLE DOUBLE BONDS)

- 33C ALCOHOLS
 - 33C1 Dihydric alcohols
 - 33C11 Ethylene glycol
 - 33C12 Propylene glycol
 - 33C2 Alcohols containing 3 or more OH groups
 - 33C21 Glycerol
 - 33C22 Pentaerythritol
 - 33C3 Heterocyclic alcohols
 - 33C31 Furfuryl alcohol
 - 33C6 Polyols (from 1994)
- 33D PHENOLS - ONE RING
 - 33D1 Monohydric
 - 33D11 Phenol
 - 33D12 Cresols
 - 33D13 Xylenols
 - 33D14 Cashew nut shell liquid
 - 33D2 Polyhydric
 - 33D21 Resorcinol
- 33E PHENOLS - MORE THAN ONE RING
 - 33E1 Bisphenols
 - 33E11 Bisphenol-A
- 33F ACIDS AND ANHYDRIDES EXCLUDING HYDROXY ACID
 - 33F1 Monobasic acids and anhydrides, aliphatic
 - 33F11 Acetic acid and anhydride
 - 33F2 Dibasic acids and anhydrides, aliphatic
 - 33F21 Oxalic acid
 - 33F22 Malonic acid
 - 33F23 Succinic acid
 - 33F24 Glutaric acid
 - 33F25 Adipic acid
 - 33F26 Sebacic acid
 - 33F3 Dibasic acids, anhydrides, and esters, aromatic
 - 33F31 Phthalic acid
 - 33F311 Phthalic anhydride
 - 33F312 Terephthalic acid, dimethyl terephthalate
 - 33F313 Isophthalic acid
 - 33F4 Polybasic acids and anhydrides
 - 33F41 Trimellitic acid and anhydride
 - 33F42 Pyromellitic acid and anhydride
- 33H ALDEHYDES AND KETONES
 - 33H1 Aldehydes
 - 33H11 Formaldehyde
 - 33H12 Acetaldehyde
 - 33H13 Propionaldehyde
 - 33H14 Butyraldehyde
 - 33H15 Benzaldehyde
 - 33H16 Furfuraldehyde
 - 33H2 Ketones
- 33J ALKYLENE OXIDES AND SULPHIDES
 - 33J1 Ethylene oxide
 - 33J2 Propylene oxide
 - 33J3 Epichlorohydrin

CLASSIFICATION CODE

- 33J4 Glycidyl compounds
- 33J5 Lactones and hydroxy acids
- 33J6 Furane

33K ALKYLENE IMINES

33L NITROGEN COMPOUNDS

- 33L1 Amines, aliphatic
 - 33L11 Hexamethylene diamine
 - 33L12 Hexamethylene tetramine
- 33L2 Amines, aromatic
 - 33L21 Aniline
- 33L3 Amides
 - 33L31 Urea
 - 33L32 Thiourea
- 33L4 Lactams and amino acids
 - 33L46 Caprolactam
 - 33L4(11) Aminoundecanoic acid
- 33L5 Isocyanates and isothiocyanates
 - 33L51 Diisocyanates
 - 33L52 Polyisocyanates
- 33L6 Triazines
 - 33L61 Melamine

33M HALOGEN CONTAINING COMPOUNDS

- 33M1 Phosgene (carbonyl chloride)

33W NOT ELSEWHERE SPECIFIED

34 INORGANIC COMPOUNDS, INCLUDING COMPOUNDS WITH ORGANIC SUBSTITUENTS

34C SILICON COMPOUNDS

- 34C1 Organosilicon halides
- 34C2 Alkoxy silanes
- 34C3 Silicon compounds containing other elements
- 34C4 Vinyl silanes

34D PHOSPHONITRILIC COMPOUNDS

- 34D1 Phosphonitrilic chloride

34W NOT ELSEWHERE SPECIFIED

37 FULLERENES AND BUCKMINSTER FULLERENES (FROM 1995)

4 POLYMERS AND RESINS

For classification of copolymers, terpolymers, etc., including methods of linking classes 41 to 45, see page 133 (for chemical derivatives of polymers see class 611; for polymeric forms e.g. latex, see class 612)

41 NATURAL POLYMERIC MATERIALS**41C NATURAL RUBBERS AND RESINS**

- 41C1 Natural rubber (for synthetic natural rubber see 42D121 cis-Polyisoprene)
- 41C2 Natural balata (for synthetic balata see 42D122 trans-Polyisoprene)
- 41C3 Natural gutta percha (for synthetic forms see 42D122 trans-Polyisoprene)
- 41C4 Natural chicle

41D CELLULOSE AND CELLULOSE DERIVATIVES

- 41D1 Cellulose including viscose rayon
 - 41D11 Cotton
- 41D2 Cellulose esters
 - 41D21 Cellulose nitrate
 - 41D22 Cellulose acetate including acetate rayon
 - 41D23 Cellulose acetate butyrate
 - 41D24 Cellulose propionate
- 41D3 Cellulose ethers
 - 41D31 Ethyl cellulose
 - 41D32 Benzyl cellulose

41E PROTEIN POLYMERS

- 41E1 Casein polymers, gelatin, glutamate, wool

41F ALGINATES**41H LIGNIN RESINS****42 ADDITION POLYMERS****42C POLYMERS OF SUBSTANCES CONTAINING ONE C=C DOUBLE BOND**

- 42C1 Polymers of aliphatic olefins
 - 42C11 Ethylene polymers; polyethylene, polythene (low and high density)
 - Ethylene copolymers with:
 - propylene 42C11C12
 - butylene 42C11C13
 - vinyl alcohol 42C11C311
 - vinyl acetate 42C11C3311
 - acrylic compounds 42C11C34 or C35
 - vinyl chloride 42C11C382
 - vinylidene chloride 42C11C387
 - acrylonitrile 42C11C391
 - butadiene 42C11D11
 - isoprene 42C11D12
 - 42C12 Propylene polymers
 - Propylene copolymers with:
 - ethylene 42C12C11
 - butylene 42C12C13
 - 42C13 Butylene polymers; cyclobutene polymers
 - 42C131 Isobutylene polymers
 - Isobutylene copolymers with:
 - butadiene, see 42D11
 - isoprene (Butyl) 42C131D12
- 42C2 Polymers of aromatic olefins
 - 42C21 Polymers of styrene and substituted styrene

	Styrene copolymers with:	
	ethylene	42C21C11
	vinyl acetate	42C21C3311
	allyl esters	42C21C332
	acrylic acid and substituted acrylic esters	42C21C351
	vinyl ethers	42C21C361
	vinyl chloride	42C21C382
	vinylidene chloride	42C21C387
	acrylonitrile	42C21C391
	acrylonitrile and butadiene (ABS)	42C21C391D11
	acrylamides	42C21C3(10)
	butadiene (high styrene)	42C21D11
	(for butadiene elastomers see 42D11)	
	isoprene	42C21D12
	divinyl benzene	42C21D21
42C211	Polymethyl styrene	
	Methyl styrene copolymers with:	
	butadiene	42C211D11
42C212	Polyhalostyrenes	
42C2121	Poly- α -chlorostyrene	
42C2122	Ring chlorinated styrene polymers	
42C213	Polyvinyl toluene	
42C214	Polyhydroxystyrene, polyvinyl phenol (from 1994)	
42C22	Indene polymers	
	Indene copolymers with:	
	coumarone	42C22C23
42C23	Coumarone polymers	
42C24	Polyvinyl naphthalene	
42C25	Polyacenaphthylene	
42C3	Polymers of aliphatic substituted olefins (including polyvinyl sulphate)	
42C31	Alcohol polymers	
42C311	Polyvinyl alcohol	
	Vinyl alcohol copolymers with:	
	vinyl acetate	42C311C3311
42C312	Polyallyl alcohol	
42C32	Vinyl acetal polymers	
42C321	Polyvinyl formal	
42C322	Polyvinyl acetal	
42C323	Polyvinyl butyral	
42C328	Polyvinyl benzal	
42C33	Polymers of esters of saturated acids and unsaturated alcohols	
42C331	Polyvinyl esters	
42C3311	Polyvinyl acetate	
	Vinyl acetate copolymers with:	
	ethylene	42C3311C11
	styrene	42C3311C21
42C3312	Polyvinyl benzoate	
42C332	Polyallyl esters (<i>for diallyl phthalate polymers see 43F21</i>)	
42C34	Polymers of unsaturated acids and anhydrides	
42C341	Monobasic acids and anhydrides	
42C3411	Polyacrylic acid	
42C3412	Polymethacrylic acid	
42C342	Dibasic acids and anhydrides	
42C3421	Maleic acid polymers	
42C3422	Fumaric acid polymers	

42C35	Polymers of esters of unsaturated acids and saturated alcohols	
42C351	Monobasic acids	
42C3511	Acrylic ester polymers	
42C35111	Polymethyl acrylate	
42C35112	Polyethyl acrylate	
42C3512	Methacrylic ester polymers	
42C35121	Polymethyl methacrylate	
42C35122	Polyethyl methacrylate	
42C352	Dibasic acids	
42C3521	Maleic ester polymers	
42C3522	Fumaric ester polymers	
42C36	Ether polymers	
42C361	Polyvinyl ethers and thioethers	
42C3611	Chlorovinyl ether polymers	
42C362	Polyallyl ethers	
42C37	Aldehyde and ketone polymers including thioaldehydes	
42C371	Aldehyde and thioaldehyde polymers	
42C3711	Acrolein	
42C3712	Methacrolein	
42C372	Ketone polymers	
42C38	Halo olefin polymers	
42C381	Polyvinyl fluoride	
42C382	Polyvinyl chloride	
	Vinyl chloride copolymers with:	
	ethylene	42C382C11
	styrene	42C382C21
	vinyl acetate	42C382C3311
	methyl methacrylate	42C382C35121
	vinylidene chloride	42C382C387
	acrylonitrile	42C382C391
	vinylidene cyanide	42C382C393
	divinyl benzene	42C382D21
42C383	Polyvinyl bromide	
42C384	Polyvinyl iodide	
42C385	Polyallyl monohalides and polymethallyl monohalides	
42C386	Polyvinylidene fluoride	
	Vinylidene fluoride copolymers with:	
	tetrafluoroethylene	42C386C38(10)
	trifluorochloroethylene	42C386C38(11)
	hexafluoropropylene (Viton)	42C386C38(12)
42C387	Polyvinylidene chloride	
	Vinylidene chloride copolymers with:	
	ethylene	42C387C11
	styrene	42C387C21
	vinyl acetate	42C387C3311
	methyl methacrylate	42C387C35121
	maleic esters	42C387C3521
	vinyl chloride	42C387C382
	acrylonitrile	42C387C391
	vinylidene cyanide	42C387C393
42C388	Polyvinyl dichloride	
42C389	Trihaloethylene polymers	

42C38(10)	Polytetrafluoroethylene	
	Tetrafluoroethylene copolymers with:	
	trifluorochloroethylene	42C38(10)C38(11)
	hexafluoropropylene	42C38(10)C38(12)
42C38(11)	Polytrifluorochloroethylene	
	Trifluorochloroethylene copolymers with:	
	ethylene	42C38(11)C11
	vinylidene fluoride	42C38(11)C386
	tetrafluoroethylene	42C38(11)C38(10)
	hexafluoropropylene	42C38(11)C38(12)
42C38(12)	Polyhexafluoropropylene	
	Hexafluoropropylene copolymers with:	
	vinylidene chloride	42C38(12)C387
	tetrafluoroethylene	42C38(12)C38(10)
	trifluorochloroethylene	42C38(12)C38(11)
42C39	Nitrile polymers	
42C391	Polyacrylonitrile	
42C392	Polymethacrylonitrile	
42C393	Polyvinylidene cyanide	
42C3(10)	Amide polymers	
42C3(10)1	Polyacrylamides	
42C3(10)2	Polymethacrylamides	
42C3(11)	Other nitrogen containing vinyl polymers	
42C3(11)1	Polyvinyl pyridine	
42C3(11)2	Polyvinyl lactams	
	42C3(11)21 Polyvinyl pyrrolidone	
42C3(11)3	Polyethylene imine	
42C3(11)4	Polyvinyl carbazole	
42D	POLYMERS OF COMPOUNDS CONTAINING TWO DOUBLE BONDS	
42D1	Polymers of aliphatic diolefins	
42D11	Polybutadiene	
42D111	cis-butadiene polymers	
42D112	trans-butadiene polymers	
	Butadiene copolymers with:	
	ethylene	42D11C11
	propylene	42D11C12
	butylene	42D11C13
	isobutylene	42D11C131
	styrene	42D11C21
	methyl styrene	42D11C211
	vinyl acetate	42D11C3311
	vinyl ether	42D11C361
	vinyl chloride	42D11C382
	acrylonitrile	42D11C391
	acrylamide	42D11C3(10)1
	vinyl pyridine	42D11C3(11)1
	isoprene	42D1D12
42D12	Polyisoprene	
42D121	cis-polyisoprene (<i>for natural rubber see 41C1</i>)	
42D122	trans-polyisoprene (<i>for balata, gutta percha and chicle see 41C2 to 41C4</i>)	
42D13	Polydimethylbutadiene	
42D14	Polychloroprene including fluoroprene and bromoprene	
42D15	Thiophene polymers	
42D16	Cyclopentadiene polymers	

42D2	Polymers of aromatic diolefins	
42D21	Polydivinyl benzene	
	Divinyl benzene copolymers with:	
	styrene	42D21C21
42D3	Polymeric diesters of saturated acids and unsaturated alcohols	
42D31	Polymeric diesters of aliphatic acids	
42D32	Polymeric diesters of aromatic acids	
42D321	Polydiallyl phthalate	
42D4	Polymeric diesters of unsaturated acids and unsaturated alcohols	
42D41	Polyallyl methacrylate	
42D5	Polymeric diesters of unsaturated acids and glycols or higher alcohols	
42D51	Polyglycol dimethacrylate	
42D6	Polymeric ethers containing two double bonds	
42E	POLYMERS OF SUBSTANCES CONTAINING MORE THAN TWO DOUBLE BONDS	
42E1	Triallyl cyanurate polymers	
42F	POLYMERS OF SUBSTANCES CONTAINING TRIPLE BONDS	
42F1	Acetylene polymers	
42F2	Propyne polymers	
42H	POLYMERS OF SUBSTANCES CONTAINING DOUBLE AND TRIPLE BONDS	
42H1	Polyvinyl acetylene	
42N	NITROSO POLYMERS	
42W	NOT ELSEWHERE SPECIFIED	
43	ELIMINATION (CONDENSATION) POLYMERS <i>(certain polymers such as polycaprolactam and polyethers from trioxane etc. are included in this group although they are formed by an addition polymerisation process. For classification of their copolymers see method of linking classes 42 and 43 on page 133.</i>	
43C	LINEAR POLYMERS SATURATED	
43C1	Polyesters	
43C11	Phthalates	
43C112	Terephthalate polyesters	
	Terephthalate polyester copolymers with:	
	isophthalate polyesters	43C112C113
43C113	Isophthalate polyesters	
43C12	Polycarbonates	
43C2	Polyester amides	
43C3	Polyamides: nylon	
43C31	From dibasic acids and diamines	
43C311	Oxalic acid and diamines	
43C313	Adipic acid; nylon 66	
43C315	Sebacic acid; nylon 610	
43C318	Aromatic acids or diamines (from terephthalic acid)	
43C32	From lactams or amino acids	
43C326	Caprolactam; nylon 6	
43C327	Nylon 7	
43C328	Nylon 8	
43C32(11)	Aminoundecanoic acid; nylon 11	
43C32(12)	Nylon 12	
43C4	Polyimides	
43C5	Polyethers; polythioethers	
43C51	Aldehyde polymers (formed by C=O double bond reactions)	
43C511	Polyacetals; polyoxymethylene	
43C5111	from formaldehyde	

- 43C5112 from trioxane
- 43C512 Acetaldehyde polymers
- 43C52 Alkylene oxide polymers; oxirane polymers; thiirane polymers; polythioethers
(see also 43H)
- 43C521 Ethylene oxide polymers
- 43C522 Cyclooxybutane polymers
- 43C523 Styrene oxide polymers
- 43C53 Polysulphones
- 43C54 Polyether ketones (PEEK, PEKK, etc.)
- 43C6 Polyurethanes
 - 43C61 from glycols
 - 43C64 from polyesters
 - 43C66 from polyethers
- 43C7 Polyureas
- 43C8 Polyanhydrides and polyester anhydrides
- 43D LINEAR POLYMERS UNSATURATED
 - 43D1 Polyesters
 - 43D11 from maleic anhydride
 - 43D12 from fumaric acid
- 43E EPOXY RESINS
- 43F CROSS LINKED POLYMERS
 - 43F1 Alkyd resins
 - 43F11 from glycerol
 - 43F12 from pentaerythritol
 - 43F2 Polyesters
 - 43F21 Diallyl phthalate polymers
- 43H THIOPLASTS; POLYSULPHIDES (see also 43C52)
- | 43J POLYANILINE (from 1994)
- | 43K POLYPYRROLE (from 1994)
- 44 ELIMINATION (CONDENSATION) RESINS**
 - 44C PHENOLIC RESINS
 - 44C1 Monohydric phenol aldehyde resins; Novolaks, resols
 - 44C11 Phenol formaldehyde
 - 44C12 Phenol furfural
 - 44C13 Cresol formaldehyde; cresylic resins
 - 44C14 Xylenol formaldehyde
 - 44C15 Cashew nut shell resins
 - 44C2 Polyhydric phenol aldehyde resins
 - 44C21 Resorcinol formaldehyde
 - 44D AMINO RESINS
 - 44D1 Urea formaldehyde
 - 44D2 Thiourea formaldehyde
 - 44D3 Dicyandiamide formaldehyde
 - 44D4 Aniline formaldehyde
 - 44D5 Melamine formaldehyde
- 45 INORGANIC POLYMERS**
 - 45C SILICON CONTAINING POLYMERS
 - 45D PHOSPHONITRILIC COMPOUND POLYMERS; PHOSPHAZENE POLYMERS
 - 45D1 Phosphonitrilic chloride polymers
 - 45E PHOSPHORUS CONTAINING POLYMERS NOT ELSEWHERE SPECIFIED
 - 45F BORON CONTAINING POLYMERS

- 46 **POLYMERS FORMED BY DIAZO DECOMPOSITION**
- 47 **FULLERENE POLYMERS AND BUCKMINSTER FULLERENE POLYMERS (FROM 1995)**

5 COMPOUNDING INGREDIENTS AND SOLVENTS**51 REINFORCING AGENTS AND FILLERS (including glass beads)**

- 51A REINFORCEMENT (BOUND RUBBER)
- 51B CARBON (*as stabiliser against light, e.g. for polyethylene film, see 54SPL1*)
 - 51BC Channel black
 - 51BF Furnace black
 - 51BG Graphite
 - 51BT Thermal process black
- 51C CARBONATES
 - 51CC Precipitated calcium carbonate
 - 51CM Magnesium carbonate
 - 51CW Whiting, ground limestone
- 51F FIBROUS MATERIALS
 - 51F1 Inorganic
 - 51F1A Asbestos
 - 51F1B Boron, including boron nitride
 - 51F1C Carbon fibre, including graphite
 - 51F1G Glass fibre, glass fabric, glass flake, etc.
 - 51F1M Metal fibre
 - 51F2 Organic
 - 51F21 Natural fibres
 - 51F21L Lignin
 - 51F21S Starch
 - 51F21W Wood flour, nutshell flour
 - 51F22 Synthetic fibres
 - 51F23 Paper
- 51M METAL POWDERS AND FLAKE
- 51P POLYMERIC FILLERS, NON-FIBROUS
 - 51PC Crumb rubber, ebonite dust
 - 51PF Factice
 - 51PFD Dark factice, sulphur chloride cured
 - 51PFW White factice, sulphur chloride cured
 - 51PR Reclaim
 - 51PS Synthetic resins
- 51Q OXIDES AND HYDROXIDES OTHER THAN SILICA
 - 51QL Lime, including use as a dehydrating agent
 - 51QLi Litharge
 - 51QZ Zinc oxide
- 51S SILICA AND SILICATES
 - 51SA Aluminium silicate
 - 51SC Calcium silicate
 - 51SCl Clays and alumino-silicates; mica, zeolite, vermiculite, feldspars, kaolin
 - 51SM Magnesium silicate; talc
 - 51SS Silicas
 - 51SS1 Natural silicas; Kieselguhr, quartz
 - 51SS2 Synthetic silicas
- 51Su SULPHATES
 - 51SuB Barium sulphates, including barytes; blanc fixe
 - 51SuC Calcium sulphate, including gypsum

52 COLOUR PIGMENTS AND DYES

- 52D DYES (USED IN SOLUTION)
- 52P PIGMENTS
 - 52P1 Inorganic
 - 52P11 Coloured
 - 52P11Cd Cadmium and selenium compounds
 - 52P11Cr Chromium and molybdenum compounds
 - 52P11Fe Iron compounds; iron oxides
 - 52P12 White
 - 52P12L Lithopone
 - 52P12T Titanium dioxide
 - 52P2 Organic
 - 52P2An Anthraquinone
 - 52P2Az Azo compounds
 - 52P2C Polycyclic compounds
 - 52P2Ph Phthalocyanines, including copper
 - 52P2U Unsaturated (polymerisable) compounds

53 PLASTICISERS, EXTENDERS, LUBRICANTS, PEPTISING AGENTS, TACKIFIERS
(for internal plasticisers see copolymers)

- 53E ESTERS
 - 53E1 Esters of inorganic acids
 - 53E11 Triphenyl phosphate
 - 53E12 Tricresyl phosphate
 - 53E2 Esters of aliphatic dibasic acids
 - 53E21 Adipates
 - 53E22 Sebacates
 - 53E3 Esters of aromatic dibasic acids
 - 53E31 Phthalates
 - 53E311 Dimethyl phthalate
 - 53E312 Dibutyl phthalate
 - 53E4 Hydroxy acid esters
 - 53E41 Ricinoleates
 - 53E42 Citrates
- 53G POLYHYDRIC ALCOHOLS AND DERIVATIVES; GLYCOLS
 - 53G1 Polyethylene glycols
 - 53G2 Glycerol
- 53H HYDROCARBONS AND TARS
 - 53HC Coal tar products; pitch
 - 53HL Lignaceous tars
 - 53HP Petroleum products; asphalt, bitumen, oil extension
 - 53HW Waxes
- 53K EPOXIDISED COMPOUNDS
 - 53KV Epoxidised vegetable oils
- 53L LUBRICANTS
 - 53LA Animal oils
 - 53LF Fatty acids
 - 53LV Vegetable oils
- 53P PEPTISING AGENTS (CHEMICAL PLASTICISERS)
- 53R RESINS AND POLYMERS
 - 53RN Natural resins
 - 53RS Synthetic resins and polymers
- 53T TACKIFIERS NOT ELSEWHERE SPECIFIED

-
- 54 ANTI-AGERS, ANTIOXIDANTS, ANTIOZONANTS, PRESERVATIVES, STABILISERS, PROTECTIVE AGENTS, CORROSION INHIBITORS (see also class 59)**
- 54A ANTISEPTICS, FUNGICIDES, BIOCIDES, ANTI-MICROBIALS, RODENT, TERMITE, AND INSECT REPELLANTS
 - 54Ax ANTIOXIDANTS, excluding when used in rubber primarily as a metal inhibitor, for which see 54M
 - 54AxAm Amines
 - 54AxAm1 Aldehyde-amine condensates
 - 54AxAm2 Ketone-amine condensates
 - 54AxAm3 Para-phenylene diamine derivatives
 - 54AxBl Blends of antioxidants
 - 54AxH Hydroxy compounds
 - 54AxH1 Substituted phenols
 - 54AxH2 Poly-nuclear phenolic derivatives (quinone and hydroquinone)
 - 54Az ANTIOZONANTS
 - 54F FLAME RETARDANTS AND FLAME PROOFING AGENTS (see also polymers and copolymers containing halogen and/or phosphorus atoms)
 - 54FA Antimony compounds
 - 54FP Phosphorus compounds
 - 54M METAL INHIBITORS AND SEQUESTERING AGENTS, including rubber antioxidants used primarily as metal inhibitors
 - 54S STABILISERS
 - 54SP Stabilisers for plastics
 - 54SPH Against heat
 - 54SPH1 Organometal compounds
 - 54SPH2 Epoxy compounds
 - 54SPL Against light
 - 54SPL1 Carbon black (for carbon black as a filler see 51B)
 - 54SR Stabilisers for rubbers
- 55 CROSSLINKING SYSTEMS**
- 55A ACCELERATORS
 - 55AAm Amino compounds and amines, excluding amino derivatives of mercapto compounds
 - 55ABl Accelerator blends
 - 55AG Guanidines
 - 55AJ Inorganic accelerators
 - 55AM Mercapto compounds including mercaptobenzthiazole, dibenzthiazyl disulphide (mercaptobenzthiazole disulphide), and ethylene thiourea
 - 55AMs Amino derivatives of mercapto compounds, e.g. sulphenamides
 - 55AT Thiocarbamates
 - 55ATs Thiuram sulphides (for use as a curing agent see 55CS3)
 - 55AX Xanthates
 - 55C CROSSLINKING, CURING, VULCANISING, AND HARDENING AGENTS
 - 55CAh Anhydrides
 - 55CAm Amines
 - 55CG Glycols
 - 55CQ Oxygen containing compounds (for synthetic resins see 55CR)
 - 55CQ1 Inorganic oxygen containing compounds excluding hydrogen peroxide
 - 55CQ11 Metal oxides
 - 55CQ2 Organic oxygen containing compounds not containing sulphur
 - 55CQ21 Peroxides, persalts, hydroperoxides
 - 55CR Synthetic resins

-
- 55CS Sulphur and sulphur containing compounds
 - 55CS1 Sulphur
 - 55CS2 Inorganic sulphur compounds, e.g. sulphur chloride
 - 55CS3 Organic sulphur compounds when used as curing agents, including thiuram sulphides, Thiokol VA-7, and Sulfasan R (*for thiuram sulphide accelerators see 55ATs*)
 - 55CSe Selenium
 - 55CT Tellurium
 - 55R RETARDERS AND ANTI-SCORCH AGENTS
 - 55T ACTIVATORS
 - 56 ODORANTS**
 - 57 BLOWING AGENTS**
 - 57C CARBON DIOXIDE RELEASING
 - 57N NITROGEN RELEASING
 - 57V VOLATILE MATERIALS INCLUDING NITROGEN AND OTHER GASES UNDER PRESSURE
 - 58 SOLVENTS AND SWELLING AGENTS**
 - 59 PROCESSING AND MODIFYING AGENTS NOT ELSEWHERE SPECIFIED, INCLUDING THOSE FOR LATEX (*nucleating agents, prodegradants, voltage stabilising additives*)**
 - 59A SURFACE ACTIVE AGENTS, INCLUDING INTERNAL MOULD RELEASE AGENTS
 - 59A1 Anti-blocking agents
 - 59A2 Anti-foaming agents
 - 59A3 Anti-static agents (*for anti-static coating process see 8(11)344*)
 - 59A4 Slip agents
 - 59A5 Wetting and dispersing agents, detergents, emulsifiers, soaps (*for emulsifiers used in polymerisation see 72225*)
 - 59A6 Finely divided solids
 - 59B CREAMING AGENTS
 - 59C COAGULANTS AND FLOCCULANTS (*for polymers used as flocculants see 6M*)
 - 59D COMPATIBILISERS, AGENTS FOR PREVENTION OF DETERIORATION AND COAGULATION AND SETTLING
 - 59G GELLING AGENTS
 - 59P AGENTS FOR ADJUSTING pH OR ELECTRICAL CHARGE
 - 59S SENSITISING AGENTS
 - 59T THICKENING AGENTS, VISCOSITY MODIFIERS, THIXOTROPIC AGENTS
 - 5(10) TEXTILES; FIBRES AND FABRICS, EXCLUDING TYRE CORD (*e.g. for fabric for belting see 5(10);6B. For tyre cord see auxiliary table 0 of class 6T1 on page 167*).**

6 APPLICATIONS OF POLYMERS**61 CHEMICAL DERIVATIVES AND POLYMERIC FORMS**

611 CHEMICAL DERIVATIVES

- 6111 Hydrogenated
- 6112 Halogenated or hydrohalogenated
 - 61121 Fluorinated or hydrofluorinated
 - 61122 Chlorinated or hydrochlorinated
 - 61123 Brominated or hydrobrominated
- 6113 Sulphohalogenated
 - 61132 Sulphochlorinated
- 6114 Depolymerised
- 6115 Ebonite
- 6116 Cyclised (*for cyclisation of polymer when bonding to metals see 8(10)53*)

612 POLYMERIC FORMS

- 6121 Latex, excluding cellular; aqueous dispersions; emulsions
- 6122 Solutions
- 6123 Plastics, organosols, plastigels, pastes, hydrogels, gels
- 6124 Cellular, including latex foam and plastisols
- 6125 Blends, interpenetrating polymer networks, inclusion compounds
- 6126 Liquid polymers, e.g. liquid rubber
- 6127 Thermoplastic elastomers
- 6128 Single crystal and liquid crystal polymers (from 1986)

62 SEMI-FINISHED APPLICATIONS (*to be used where no end product is referred to or where the semi-finished application is of prime importance*)

621 MIXES AND COMPOUNDS

622 MOULDING AND OTHER POLYMERIC POWDERS AND GRANULES

- 6221 Microcapsules and microspheres (from 1994)

623 EXTRUSIONS, PROFILES; INCLUDING RODS, TUBES, ETC.

624 RIGID SHEET

625 FLEXIBLE SHEET, INCLUDING FILM AND LAMINATED FILM

626 LAMINATES OTHER THAN LAMINATED FILM, INCLUDING POLYMER COATED METALS

- 6261 Laminated glass, e.g. safety glass

627 REINFORCED PLASTICS AND RUBBERS

- 6271 Asbestos based
- 6272 Glass fibre based
- 6273 Natural fibre based
- 6274 Synthetic fibre based (i.e. textile fibres such as rayon, terylene)
- 6275 Boron fibre based, including boron nitride
- 6276 Carbon fibre based, including graphite
- 6277 Metallic fibre based

628 PROOFED FABRIC

629 COATED PAPER

62(10) POLYMER TREATED FABRICS, e.g. SHRINK-PROOFED, WATER-REPELLANT

62(11) POLYMER BOUND FIBRES AND FIBROUS MATERIALS, e.g. non-woven fabrics

62(12) POLYMER BOUND NON-FIBROUS MATERIALS, e.g. Devcon (*for binders for abrasives see 6A61*)

62(13) SYNTHETIC LEATHER, POLYMER TREATED LEATHER

62(14) FIBRES AND FABRICS THEREFROM; THREAD

- 62(14)1 Elasticised fabric

62(15) SCRAP POLYMER

-
- 63 RELATING TO PARTICULAR INDUSTRIES OR FIELDS OF USE, e.g. transport**
*(classification is to be primarily by specific product, for which see classes 6A to 6Y;
for discussions of groups of products relating to particular industries or fields of use not
covered by a single class in 6A to 6Y see 63 and subdivisions of 63)*
- 63Ag AGRICULTURE, HORTICULTURE, AND GARDENS, INCLUDING SOIL TREATING RESINS
(for garden hose see 6H221; for greenhouses see 6R7)
 - 63Arm ARMED FORCES; CIVIL DEFENCE; MILITARY APPLICATIONS
 - 63Br BREWING
 - 63Bu BUILDING
 - 63Ca CATERING; FOOD
 - 63Cer CERAMICS
 - 63E ENGINEERING *(for insulation other than electrical see 6L; for electrical and electronic
applications see 6E)*
 - 63EC Engineering: chemical
 - 63ECi Engineering: civil
 - 63EM Engineering: mechanical
 - 63En ENTERTAINMENT
 - 63Ene ENERGY APPLICATIONS
 - 63F FISHING
 - 63FF FIRE FIGHTING
 - 63Ga GAS
 - 63Le LEATHER
 - 63Mar MARINE, OTHER THAN FOR TRANSPORT
 - 63Mn MINING AND QUARRYING
 - 63Nu NUCLEAR, INCLUDING DISPOSAL OF NUCLEAR WASTE
 - 63Pet PETROLEUM AND OIL
 - 63Pr PRINTING AND PAPER
 - 63Pub PUBLICITY
 - 63Te TEXTILES
 - 63Tr TRANSPORT
 - 63Tr.Air Transport: Air
 - 63Tr.Ra Transport: Rail
 - 63Tr.Ro Transport: Road
 - 63Tr.Sea Transport: Sea
 - 63Tr.Sp Transport: Space
 - 63Wo WOODWORKING
- 6A ADHESIVES, CEMENTS, SEALANTS, COATINGS AND POLISHES** *(polymer applied as a
liquid or semi liquid and allowed to dry or set)*
- 6A1 ADHESIVES *(for adhesives for bonding polymers to other materials see 8(10); for theory of
adhesion see 9(12)4)*
 - 6A11 For paper
 - 6A12 For fabrics
 - 6A13 For leather *(including all applications for footwear)*
 - 6A14 For wood
 - 6A15 For metals
 - 6A16 For glass, ceramics, concrete, stone, etc.
 - 6A17 For surgical applications
 - 6A2 SEALANTS, CAULKING COMPOSITIONS, AND CURTAIN WALL SEALANTS
*(for joints and seals see 6J; for insulation against water and weather see 6L;
for expansion joints for roads see 6R3)*

6A3 COATINGS

- 6A31 Paints and lacquers (*6A31 and subdivisions of 6A31 should only be used for types of paints; for information on specific properties of paints add ;9...*)
 - 6A311 Decorative and generally protective, including lacquers
 - 6A312 Resistant to fluids
 - 6A313 Radiation resistant
 - 6A314 For acoustic purposes
 - 6A315 As thermal insulation, including flame proofing
 - 6A316 As electrical insulation
 - 6A317 Anti-stick coatings
- 6A32 Inks
- 6A33 Strippable coatings (*for insulation other than electrical see 6L*)

6A4 POLISHES

6A5 BINDERS FOR FIBRES AND FIBROUS MATERIALS, INCLUDING CHIPBOARD
(*for carpets see 6D251*)

6A6 BINDERS FOR NON-FIBROUS MATERIALS

- 6A61 Binders for abrasives (*for friction linings, brake linings and blocks, and clutch linings see 6N11; for friction drives see 6T21; for erasers see 6X1; for abrasive wheels etc. see 6Y7*)

6A7 ADHESIVE TAPE AND SHEET, including labels

- 6A71 Electrical insulating tape (*for non-adhesive insulating tape see 6E2*)
- 6A72 Surgical tape and bandages (*for non-adhesive bandages see 6S32*)
- 6A73 Packaging tape (*for non-adhesive packaging tape see 6P52*)
- 6A74 Decorative adhesive sheet
- 6A75 Masking tape

6A8 LUBRICANTS, POLYMER BASED HYDRAULIC FLUIDS

6A9 PROPELLANTS AND INCENDIARY COMPOSITIONS

6B BELTING

6B1 CONVEYOR BELTING

- 6B11 Fire-resistant, including all conveyor belting for coal mines
- 6B12 Other heavy duty conveyor belting, e.g. for quarries
- 6B13 Food conveyor belting
- 6B14 Textile processing, e.g. draft aprons

6B2 POWER TRANSMISSION BELTING

- 6B21 Flat
- 6B22 Profile belting
 - 6B221 Wedge and V-belting

6B3 CONNECTORS

6C CLOTHING AND FOOTWEAR

6C1 CLOTHING

- 6C11 Mackintoshes, overalls, and aprons
- 6C12 Gloves, including surgeons' and electricians' gloves
- 6C13 Stockings, including surgical stockings
- 6C14 Corsets, brassieres, etc.
- 6C15 Belts, braces, and suspenders
- 6C16 Head gear, including crash and safety helmets, swimming caps etc.
- 6C17 Protective pads etc., other than gloves and head gear
- 6C18 Swimwear other than caps and footwear (*for flippers see 6G332*)
- 6C19 Space wear and clothing for irrespirable atmospheres
- 6C1(10) Masks, goggles, respirators, and snorkels
- 6C1(11) Haberdashery, including sliding fasteners, clothes hangers, buttons, and tailor's dummies

- 6C2 FOOTWEAR (*for foot supports and appliances see 6S2*)
 - 6C21 Wellingtons, thigh boots, etc.
 - 6C22 Bathing shoes (*for flippers see 6G332*)
 - 6C23 Footwear for animals
 - 6C24 Rubber and plastic soled footwear with leather or fabric uppers
 - 6C241 Stitched or cemented
 - 6C242 Direct moulded
 - 6C25 Rubber and plastic uppers and all rubber or plastic shoes
 - 6C26 Galoshes, overshoes, and other shoe coverings
 - 6C27 Soles and heels
 - 6C271 Soles
 - 6C272 Heels
 - 6C28 Tips, pads, studs, toe caps, etc.
 - 6C29 Insoles and linings

6D DOMESTIC FITTINGS AND ACCESSORIES; FURNITURE AND SOFT FURNISHINGS

- 6D1 DOMESTIC FITTINGS AND ACCESSORIES
 - 6D11 Kitchenware and refuse containers
 - 6D12 Cleaning and decorating devices, including brushes etc. (*for paint rollers see 6W5*)
 - 6D13 Tableware, including cups, plates, cutlery, mats, straws, cocktail sticks, etc.
 - 6D14 Bathroom accessories, toilet requisites and personal care products
e.g. bath trays, combs, razors, toothbrushes.
 - 6D15 Domestic fittings and similar industrial appliances, e.g. refrigerators, washing machines, hand basins (*for electrical parts for same see 6E*)
 - 6D16 Sound and visual transmitting, receiving and recording equipment (*for electrical parts for same see 6E; for optical instruments for same e.g. camera lenses see 6K1*)
 - 6D161 Records, audio tapes, compact discs and dvd
- 6D2 FURNITURE AND SOFT FURNISHINGS
 - 6D21 Frames
 - 6D211 Chairs, seats, beds, and settees, including saddles
 - 6D212 Tables and trolleys
 - 6D213 Wardrobes, cupboards, chests, and shelves
 - 6D214 Feet and castors
 - 6D215 Racks
 - 6D22 Springing
 - 6D221 Polymer coated wire springs
 - 6D222 Sheathed wire springs
 - 6D223 Webbing
 - 6D23 Cushioning
 - 6D231 Cushions and pillows, including built in cushions
 - 6D232 Mattresses
 - 6D24 Curtains, blinds, covers, and vehicle trim
 - 6D241 Covers; upholstery
 - 6D242 Curtains; curtain rails
 - 6D243 Vehicle trim, including vehicle upholstery
 - 6D25 Carpets, carpet underlays, mats, and rugs (*for sheet and tile floor coverings see 6R41*)
 - 6D251 Carpets and mats of polymer backed fabrics and fibres (*for binders for carpet backing see 6A5*)
 - 6D252 Carpet underlays
 - 6D253 Moulded mats etc.

6E ELECTRICAL AND ELECTRONIC APPLICATIONS (*for electricians' gloves see 6C12; for grommets see 6J5*)

6E1 CABLES AND WIRES

6E11 Power

6E111 Non-submarine

6E1111 Insulation, solid

6E1112 Insulation, fluid

6E1113 Sheathing

6E112 Submarine

6E1121 Insulation, solid

6E1122 Insulation, fluid

6E1123 Sheathing

6E12 Communication

6E121 Non-submarine

6E1211 Insulation, solid

6E1212 Insulation, fluid

6E1213 Sheathing

6E122 Submarine

6E1221 Insulation, solid

6E1222 Insulation, fluid

6E1223 Sheathing

6E2 INSULATING TAPE (*for adhesive insulating tape see 6A71*)

6E3 POTTING COMPOUNDS AND SIMILAR INSULATING COMPOSITIONS

6E4 CASES AND BODIES; SHEET, TUBE, AND MOULDED INSULATION (*for shells for refrigerators etc. see 6D15; for shells for sound and visual transmitting, receiving and recording equipment see 6D16*)

6E41 Instruments

6E42 Chokes, transformers, and solenoids

6E43 Panels (relay, switch, distribution, fuse) and junction boxes, terminals, tag board and terminal block, suspension and stand-off insulators

6E44 Lamps, lamp holders, plugs, sockets, switches, and relays

6E45 Telephones and bells

6E46 Heating appliances and tapes

6E47 Printed circuit boards

6E48 Conduits

6E49 Cable clamps and straps

6E4(10) Reels and drums

6E4(11) Capacitors

6E4(12) Accumulators and batteries

6E4(12)1 Cases

6E4(12)2 Separators

6E4(13) Cable connectors

6E4(14) Electrets and polarets (electrostatic analogues of permanent magnets)

6E4(15) Computers, business machines, calculators, cash registers (from 1994)

6E4(16) Smart cards (from 1995)

6F FANCY GOODS, including paintings, sculpture, etc.
(*for toilet requisites see 6D14; for mats see 6D13 and 6D253*)

6F1 SMOKERS' REQUISITES

6F2 ARTIFICIAL LEATHER GOODS, e.g. travel goods, handbags, straps, etc.

6F3 UMBRELLAS

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- 6F4 JEWELLERY, CLOCKS, WATCHES
 - 6F5 ARTIFICIAL FLOWERS ETC.
 - 6F6 LAMP SHADES
 - 6G GAMES, SPORTS APPLIANCES, TOYS, AND RELATED GOODS**
 - 6G1 BALLS
 - 6G11 Golf
 - 6G12 Lawn tennis
 - 6G13 Football, basket ball, punch ball, etc.
 - 6G14 Cricket, hockey, baseball, etc.
 - 6G15 Bowls and skittle balls
 - 6G16 Lacrosse
 - 6G17 Fives and squash
 - 6G18 Table tennis
 - 6G19 Billiards and snooker
 - 6G1(10) Ice hockey pucks
 - 6G1(11) General playballs
 - 6G2 SPORTS APPLIANCES
 - 6G21 Golf
 - 6G211 Bags
 - 6G212 Tees
 - 6G213 Clubs
 - 6G22 Lawn tennis
 - 6G23 Cricket, hockey, baseball, etc.
 - 6G24 Table tennis
 - 6G25 Winter sports
 - 6G251 Skis
 - 6G26 Roller skates, skateboards
 - 6G27 Archery
 - 6G28 Shooting
 - 6G3 WATER DEVICES
 - 6G31 Boats, rafts, pontoons, and floats (*for shells of marine craft see 6N2*)
 - 6G311 Inflatable boats and dinghies
 - 6G32 Swimming pools and ponds
 - 6G33 Swimming and life-saving devices
 - 6G331 Inflatable tubes etc.
 - 6G332 Flippers (*for bathing shoes see 6C22*)
 - 6G34 Floating toys
 - 6G4 EXERCISERS
 - 6G5 PROJECTILES AND MISSILES OTHER THAN BALLS, e.g. darts
 - 6G6 TOYS (*for floating toys see 6G34; for toy balloons see 6G81*)
 - 6G61 Dolls, animals, etc.
 - 6G62 Small toys and models, including rubber-propelled toys
 - 6G63 Large toys which can be ridden or driven
 - 6G7 INDOOR GAMES AND ACCESSORIES
 - 6G8 BALLOONS (*for space satellites see 6N3*) AND PARACHUTES
 - 6G81 Toy balloons
 - 6H HOSE, TUBING, AND PIPING**
 - 6H1 HOSE (REINFORCED)
 - 6H11 Fire hose
 - 6H12 Other water carrying hose
 - 6H13 Steam hose
 - 6H14 Petrol and oil hose

- 6H15 Air and vacuum hose
- 6H16 Hydraulic hose
- 6H2 TUBING AND PIPING, INCLUDING GUTTERING (NOT REINFORCED)
 - 6H21 Pipe and pipelines (rigid tubing)
 - 6H211 Water pipe
 - 6H212 Guttering
 - 6H22 Flexible tubing
 - 6H221 Garden hose
 - 6H222 Laboratory tubing
 - 6H223 Surgical tubing
- 6H3 FITTINGS, INCLUDING COUPLINGS AND CLAMPS
- 6H4 NOZZLES
- 6J JOINTS, SEALS, PACKINGS, AND OTHER MECHANICAL PARTS**
(for sealing and caulking compositions see 6A2; for insulation other than electrical, including moisture barriers, see 6L; for expansion joints for roads see 6R3)
 - 6J1 SEALS FOR MOVING JOINTS *(for weather stripping see 6J3)*
 - 6J11 Ring types
 - 6J111 O-rings
 - 6J112 Square or rectangular sections
 - 6J113 Grooved sections
 - 6J12 Packing types
 - 6J13 Bellows and rolling diaphragm types
 - 6J2 SEALS FOR NON-MOVING JOINTS *(for weather stripping see 6J3)*
 - 6J21 Packings
 - 6J22 Gaskets other than rings
 - 6J23 Ring types
 - 6J231 O-rings
 - 6J232 Square or rectangular sections
 - 6J3 WEATHER STRIPPING
 - 6J31 Vehicles
 - 6J32 Buildings
 - 6J4 JOINTING SLEEVES
 - 6J5 GROMMETS, INCLUDING ELECTRICAL APPLICATIONS
 - 6J6 JOINTS FOR DAMS, RESERVOIRS, ETC.
 - 6J7 MECHANICAL PARTS
 - 6J71 Gear wheels, pulleys
 - 6J72 Valves
 - 6J73 Bearings
 - 6J74 Pumps and siphons
 - 6J75 Bulbs, fluid actuated devices, jacks, and diaphragms
 - 6J76 Fan blades, compressor blades
 - 6J77 Filters *(for cigarette filters see 6F1; for optical filters see 6K13)*
 - 6J78 Nuts, bolts, rivets, scrws, etc.
 - 6J79 Hinges
- 6K OPTICAL AND OTHER SCIENTIFIC INSTRUMENTS EXCLUDING ELECTRICAL INSTRUMENTS AND ACCESSORIES** *(for electrical instruments see 6E41; for sound and visual transmitting, receiving and recording equipment shells and structural parts see 6D16)*
 - 6K1 OPTICAL INSTRUMENTS AND/OR PARTS THEREOF, e.g. microscopes, camera lenses, mirrors, light guides
 - 6K11 Lenses
 - 6K12 Spectacle frames
 - 6K13 Filters, including polarising filters
 - 6K14 Photographic film

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- 6K2 INSTRUMENTS USED IN THE PHYSICAL SCIENCES EXCLUDING OPTICS
- 6K3 CHEMICAL LABORATORY APPARATUS (*for laboratory tubing see 6H222*)
- 6L INSULATION OTHER THAN ELECTRICAL, INCLUDING STRIPPABLE COATINGS**
(polymer applied as solid or foam or used structurally; 6L and subdivisions of 6L should only be used for specific applications of polymers as insulation; for information on specific properties of the insulation add ;9...; for information on oil, chemical, thermal etc. resistance of polymers see 4...;9...; for sealing and caulking compositions see 6A2; for strippable coatings see 6A33; for weather stripping see 6J3; for tank linings see 6P253)
- 6L1 INSULATION AGAINST FLUIDS OTHER THAN WATER
- 6L11 Oils and solvents
- 6L12 Chemical reagents
- 6L2 INSULATION AGAINST WATER (*for joints for dams etc. see 6J6*)
- 6L21 Moisture barriers
- 6L3 THERMAL INSULATION
- 6L4 FLAME INSULATION
- 6L5 INSULATION AGAINST RADIATION
- 6L6 SOUND INSULATION AND ABSORPTION
- 6L7 WEATHER (GENERAL CORROSION) INSULATION, INCLUDING DE-ICING DEVICES
- 6M POLYMERS AS CHEMICAL REAGENTS AND RELATED POLYMERIC MATERIALS, e.g. polyelectrolytes, membranes**
- 6M1 ION EXCHANGE RESINS
- 6M2 CHELATING RESINS
- 6M3 CONTROLLED RELEASE
- 6M4 POLYMER SUPPORTS (from 1986)
- 6M5 ENZYME IMMOBILISATION (from 1986)
- 6N VEHICLE SHELLS AND ACCESSORIES NOT ELSEWHERE SPECIFIED**
(for domestic fittings and similar industrial appliances see 6D15; for sound and visual transmitting, receiving and recording equipment see 6D16; for seats and saddles see 6D211; for vehicle trim see 6D243)
- 6N1 ROAD, RAIL, AND OPEN-LAND VEHICLE SHELLS
- 6N11 Friction linings (*for binders for abrasives see 6A61; for friction drive tyres see 6T21; for erasers see 6X1; for abrasive wheels etc. see 6Y7*)
- 6N111 Brake linings and blocks
- 6N112 Clutch linings
- 6N12 Windscreen wipers
- 6N2 MARINE CRAFT SHELLS (*for boats etc. see 6G31*)
- 6N3 AIRCRAFT, HOVERCRAFT, ROCKETS, MISSILES, SATELLITES, AND SPACE VEHICLES
(for balloons see 6G8)
- 6P PACKAGING AND CONTAINERS (*for shock absorbing packaging see 6V8*)**
- 6P1 PACKAGING SHEET AND FILM; COATED PAPER; LAMINATED FILM; LAY FLAT TUBING
- 6P11 Sheet film
- 6P12 Bags and sachets
- 6P121 Heavy duty
- 6P122 Light duty
- 6P13 Linings for bags, cartons, etc.
- 6P2 CONTAINERS (*for domestic containers see 6D1*)
- 6P21 Bottles (*for chemical apparatus see 6K3*)
- 6P22 Tubes
- 6P23 Bubble packs, blister packs
- 6P24 Boxes, including coffins (*for battery boxes see 6E4(12)1*)
- 6P25 Tanks, carboys, silos, tankers, drums

CLASSIFICATION CODE

- 6P251 Flexible tanks
 - 6P2511 Dracones etc.
- 6P252 Self-sealing fuel tanks
- 6P253 Drum and tank linings
- 6P26 Crates
- 6P3 PROTECTIVE COVERS
 - 6P31 Tarpaulins, car covers, etc.
 - 6P32 Ground sheets (*for ground covers, e.g. PVC mulch, see 63Ag*)
 - 6P33 Covers for storage tanks
- 6P4 PACKAGING ACCESSORIES
 - 6P41 Stoppers, closures, crown caps, bungs, etc.
 - 6P42 Corner and eyelet reinforcements
- 6P5 STRING, ROPE, TAPE, NET, AND CHAIN
 - 6P51 String, rope, and net
 - 6P52 Tape (*for adhesive packaging tape see 6A73*)
- 6R ROADS, BUILDING, CONSTRUCTION, FLOORING, ETC.**
 - 6R1 COMPOSITIONS APPLIED IN PLASTIC CONDITION FOR ROADS, AIRCRAFT RUNWAYS, PATHS, SPORTS GROUNDS, FLOORS, AND ROOFS
 - 6R2 ROAD BLOCKS
 - 6R3 EXPANSION JOINTS FOR ROADS AND WALLS (*for sealing and caulking compositions see 6A2; for other joints see 6J*)
 - 6R4 TILES AND SHEET FOR COVERING FLOORS, WALLS, ROOFS, CEILINGS, ETC.
 - 6R41 Floors (*for carpets, underlays, mats and rugs see 6D25*)
 - 6R42 Walls
 - 6R43 Roofs
 - 6R44 Ceilings
 - 6R5 MARKING LINES FOR ROADS, SPORTS GROUNDS, ETC.; TRAFFIC SIGNS; CATS' EYES (*for other signs see 6X5*)
 - 6R6 STAIR TREADS AND NOSINGS, HANDRAILS, ESCALATOR FITTINGS
 - 6R7 PREFABRICATED PARTS FOR USE IN BUILDINGS
 - 6R71 Structural, including domes
 - 6R72 Semistructural, including curtain walling, wall panels, and sandwich structures
 - 6R73 Non-structural; excluding floor, roof, wall, and ceiling coverings of tile or sheet; e.g. window frames, corrugated roofing sheet
 - 6R731 Solar panels
 - 6R8 LARGE PERMANENT HOUSEHOLD FITTINGS AND ALLIED PORTABLE GOODS e.g. baths, sinks, etc.
 - 6R9 TENTS AND PNEUMATIC STRUCTURES
- 6S SURGICAL, DENTAL, PERSONAL HYGIENE AND VETERINARY APPLICATIONS**
e.g. Nappies. (for surgeons' gloves see 6C12; for animal footwear see 6C23; see 6D232; for surgical tubing see 6H223) see also Personal care products 6D14
 - 6S1 TEATS, NIPPLES, SUCKERS AND TEETHING RINGS
 - 6S2 FOOT SUPPORTS AND APPLIANCES
 - 6S3 BANDAGES, FINGERSTALLS, SPLINTS, TRUSSES, AND SUPPORTS (*for surgical stockings see 6C13*)
 - 6S31 Covers and plugs for ears, nose, and mouth
 - 6S32 Bandages (*for adhesive surgical tape and bandages see 6A72*)
 - 6S33 Fingerstalls
 - 6S34 Splints
 - 6S35 Trusses
 - 6S4 MASSAGE APPLIANCES
 - 6S5 SYRINGES, DOUCHES, IRRIGATORS, SMALL SPRAY BULBS, AND CATHETERS

6S6	SURGICAL BAGS, BOLSTERS, WATER-BEDS, ANAESTHETIC BAGS AND MASKS
6S61	Hot-water bottles
6S7	ARTIFICIAL PARTS OF THE BODY, LIGATURES, PINS, SUTURES, IMPLANTS, ETC.
6S8	HAIR TREATMENT DEVICES, HAIR CARE PRODUCTS (shampoos, conditioners, sprays)
6S9	DENTAL USES (<i>for toothbrushes see 6D14</i>)
6S(10)	BLOOD-PRESSURE APPLIANCES
6S(11)	CONTRACEPTIVES, PESSARIES
6S(12)	VETERINARY USES (<i>for pharmaceutical applications see 6S(13)</i>)
6S(12)1	Milking devices; teat cups
6S(13)	PHARMACEUTICAL APPLICATIONS

6T TYRES AND TRACKS

6T1	PNEUMATIC TYRES
6T11	Passenger-car tyres
6T111	Winter tyres
6T12	Heavy road vehicle tyres (truck, lorry, bus, etc.)
6T13	Open-land vehicle tyres
6T131	Tractor tyres
6T132	Special purpose tyres (earthmovers, sand vehicles, snow vehicles, etc.)
6T14	Racing car tyres
6T15	Bicycle tyres
6T16	Motor cycle tyres
6T17	Scooter tyres etc.
6T18	Rail tyres
6T19	Aircraft tyres
6T1(10)	Other pneumatic tyres (cranes, trucks (non-road), electrically powered vehicles not specified in classes 6T11 to 6T19)

AUXILIARY TABLE APPLICABLE ONLY TO CLASS 6T1 and SUBDIVISIONS OF 6T1

The class 6T1 for pneumatic tyres and each of its subdivisions may be further subdivided by means of the auxiliary table given below, e.g. 6T1101 Bead for passenger-car pneumatic tyres. A number 0 following the class numbers 6T2 to 6T8 indicates an accessory to the product specified, e.g. 6T40 Accessories for Emergency Tyres. Further information on the use of a number 0 to indicate accessories for other classes is given in Section 7.2.3.

0	PARTS OF PNEUMATIC TYRES
01	Bead
02	Carcass
021	Friction compositions
022	Fabric
0221	Cotton
0222	Metal
0223	Man-made fibres
02231	Rayon
02232	Nylon
02233	Polyester
03	Tread
031	Embedded grains, friction elements, etc.
032	Removable tread bands
04	Sidewall
041	Sidewall trim
042	Non-black sidewall
05	Inner tube and other tyre-filling structures and materials

CLASSIFICATION CODE

- 051 Safety constructions
- 052 Structures other than tubes
- 06 Tubeless tyre construction
 - 061 Air-impervious linings for tubeless tyres
 - 062 Safety constructions and materials, e.g. lubricants
- 07 Valves
- 08 Accessories
- 6T2 SOLID TYRES
 - 6T21 Friction drive tyres (*for binders for abrasives see 6A61; for friction linings, brake linings, and blocks and clutch linings, see 6N11; for erasers see 6X1; for abrasive wheels etc. see 6Y7*)
 - 6T22 Tyres for industrial trucks
 - 6T23 Other solid tyres
- 6T3 CATERPILLAR TRACKS
- 6T4 EMERGENCY TYRES
- 6T5 WHEELS, INCLUDING DUAL WHEELS, AND RIMS
 - 6T51 Wheels
 - 6T52 Rims
- 6T6 REPAIR MATERIALS
 - 6T61 Tread rubber (camelback)
- 6T7 TYRE DRESSINGS
- 6T8 CURING BAGS FOR TYRE MANUFACTURE AND REPAIR
- 6V VIBRATION DAMPERS AND SHOCK ABSORBERS**
 - 6V1 VEHICLE AND AIRCRAFT WHEEL AND TRACK SUSPENSIONS; SPRINGS AND DAMPERS
 - 6V11 Automobiles
 - 6V111 Non-pneumatic
 - 6V112 Pneumatic
 - 6V12 Open-land vehicles
 - 6V13 Cycles and motor cycles
 - 6V14 Rail vehicles
 - 6V15 Aircraft
 - 6V2 MOUNTINGS FOR USE IN VEHICLES, AIRCRAFT, SHIPS, ETC.
(*for instrument mountings see 6V4*)
 - 6V21 Engine mountings
 - 6V211 Automobiles
 - 6V212 Open-land vehicles
 - 6V213 Motor cycles
 - 6V214 Rail vehicles
 - 6V215 Aircraft
 - 6V216 Marine craft
 - 6V22 Body mountings
 - 6V221 Automobiles
 - 6V222 Open-land vehicles
 - 6V223 Motor cycles
 - 6V224 Rail vehicles
 - 6V225 Aircraft
 - 6V226 Marine craft
 - 6V3 BUMPERS, FENDERS, BUFFERS, AND DRAFT GEAR (*for machine and tool buffers and stops see 6V7*)
 - 6V31 Bumpers, fenders, and buffers
 - 6V32 Draft gear
 - 6V4 INSTRUMENT MOUNTINGS
 - 6V5 MOUNTINGS FOR STATIONARY MACHINES

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- 6V6 COMPRESSION PADS, SHEET IN PRESSES, ETC.
 - 6V61 Printing blankets, stereos, plates
 - 6V7 MACHINE AND TOOL BUFFERS AND STOPS, RECOIL PADS, DIE BLOCKS, AND JAW GRIPS
 - 6V8 SHOCK ABSORBING PACKAGING (*for other types of packaging see 6P*)
 - 6V81 Bonded mountings
 - 6V82 Sheet or mat mountings
 - 6V83 Particulate materials
 - 6V9 SHOCK PROTECTION OF BUILDINGS, BRIDGES, RAIL TRACK, ROADS, ETC.
 - 6V(10) STOPS, TIPS, PEDAL RUBBERS, ETC.
 - 6V(11) LININGS FOR MILLS, CHUTES, SIEVES, ETC. (*for rubber-lined pumps see 6J74*)
 - 6V(12) FLEXIBLE COUPLINGS FOR POWER TRANSMISSION
- 6W ROLLERS**
- 6W1 PRINTING ROLLERS
 - 6W2 ROLLERS FOR TYPEWRITERS, ACCOUNTING MACHINES, ETC.
 - 6W3 ROLLERS FOR EXPRESSING LIQUIDS, WRINGER ROLLERS
 - 6W4 FIBRE-TREATING ROLLERS AND ROLLER COVERINGS, INCLUDING SPINNING COTS AND CARD CLOTH (*for draft aprons see 6B14*)
 - 6W5 PAINT ROLLERS
- 6X STATIONERS' GOODS, OFFICE ACCESSORIES, ETC., INCLUDING PAPER**
- 6X1 ERASERS
 - 6X2 STATIONERS' BANDS
 - 6X3 PENS AND PENCILS, AND PARTS THEREOF
 - 6X4 RUBBER STAMPS AND INKING PADS
 - 6X5 LABELS AND SIGNS (*for traffic signs see 6R5*)
 - 6X6 BOOK BINDING REQUISITES
- 6Y MISCELLANEOUS GOODS NOT ELSEWHERE SPECIFIED**
- 6Y1 EDUCATIONAL AND ARCHITECTURAL MODELS; MAPS
 - 6Y11 Maps
 - 6Y12 Anatomical models
 - 6Y2 HANDLES AND GRIPS (*for handrails see 6R6*)
 - 6Y3 SPOUTS, NOZZLES, AND ANTI-SPLASH DEVICES
 - 6Y4 SUCTION CUPS
 - 6Y5 SHOP FITTINGS (*for labels and signs see 6X5*)
 - 6Y51 Forms, display models
 - 6Y6 TOOLS, HAMMERS, TRUNCHEONS, BATONS, GREASE GUNS, MOWER BLADES, LADDERS
 - 6Y7 ABRASIVE WHEELS ETC. (*for binders for abrasives see 6A61; for friction linings, brake linings and clutch linings see 6N11*)
 - 6Y8 MOULDS, INCLUDING INFLATABLE MOULDS, DIES, CASTS

7 DESIGNS; STANDARDS AND SPECIFICATIONS; SOURCES AND PRODUCTION

Class 71 is used with a number 0 inserted to further subdivide class 8 Processing and Treatment. Class 71 is also used, without the insertion of a number 0, to further subdivide class 9 Properties and Testing.

71 DESIGNS; STANDARDS AND SPECIFICATIONS; STANDARDISATION**72 PRODUCTION****721 NATURAL PROCESSES**

- 7211 Plant cultivation, e.g. of Hevea, kok-saghyz, cotton
 - 72111 Geographical distribution
 - 72112 Agriculture; preparation of ground, raising of plant
 - 72113 Selective breeding, bud grafting, yield stimulation
 - 72114 Diseases, pests, damage; preventive measures
- 7212 Anatomy and physiology of plant; production of polymer in plant
- 7213 Removal of polymer from plant, e.g. tapping
- 7214 Processing of polymer after removal from plant (*for coagulants see 59C*)
- 7215 Plantation processed polymers, types and grades, e.g. smoked sheet, superior processing natural rubber

722 ADDITION POLYMERISATION AND COPOLYMERISATION

- 7221 Theory, mechanism, rate, kinetics
- 7222 Processing agents (*for coagulants see 59C*)
 - 72221 Catalysts
 - 722211 Free radical type
 - 7222111 Peroxides, persalts, hydroperoxides
 - 7222112 Azo compounds
 - 722212 Ionic type
 - 7222121 Cationic (Friedel Crafts)
 - 7222122 Anionic (Alfin)
 - 722213 Stereospecific catalysts (Ziegler)
 - 722214 Regiospecific catalysts (head-to-head, head-to-tail, tail-to-tail) (from 1994)
 - 722215 Metathesis polymerisation catalysts (from 1994)
 - 72222 Initiators
 - 72223 Modifiers
 - 72224 Short stops, chain terminating agents
 - 72225 Emulsifiers, including soaps and surfactants
 - 72226 Inhibitors
- 7223 Polymerisation and copolymerisation processes, excluding ordered copolymers (*for coagulants see 59C*)
 - 72231 Bulk, mass, solid state
 - 72232 Solution
 - 72233 Emulsion, including coagulation
 - 72234 Suspension and dispersion, granular
 - 72235 Irradiation
 - 722351 Light and ultra-violet
 - 722352 α , β , γ , and X-rays
 - 72236 Thermal polymerisation (from 1986)
 - 72237 Gas phase polymerisation (from 1995)

723 CONDENSATION POLYMERISATION, EXCLUDING ORDERED COPOLYMERS**724 ORDERED COPOLYMERS, INCLUDING MECHANO-CHEMICAL PROCESSES**

- 7241 Graft
- 7242 Block

725 POLYMER MODIFICATION DURING POLYMERISATION

- 7251 Bulk colouring
- 7252 Flame proofing

726 PURIFICATION

8 PROCESSING AND TREATMENT

To indicate standards and specifications relating to processing and treatment the subdivision 71 from class 7 may be added to class 8 and all its subdivisions following the addition of a number 0, e.g. for standards for cutting of blanks see 816071.

81 PRELIMINARY PROCESSES *(subdivisions of 281 derived from this class)*

- 811 BALE CUTTING
- 812 PROCESSING OF POWDERS
 - 8121 Grinding
 - 8122 Pelletising
 - 8123 Sieving
- 813 MIXING, MASTICATION, MILLING, AND COMPOUNDING *(for continuous mixing see 821)*
 - 8131 Open milling
 - 8132 Internal mixing
 - 8133 Solution and dough mixing, non-aqueous
 - 8134 Latex mixing, aqueous
- 814 HEAT TREATMENT DURING COMPOUNDING
 - 8141 Promoters
- 815 GRANULATING
- 816 CUTTING OF BLANKS
- 817 PREFORMING
- 818 HEATING AND PREHEATING, COOLING DURING PROCESSING
 - 8181 Hot oven
 - 8182 Steam
 - 8183 Radio frequency
- 819 DRYING, DEGASSING, DEVOLATILISATION
- 81(10) LINING

82 EXTRUSION *(subdivisions of 282 are not derived from this class)*

- 821 EXTRUSION MIXING
- 822 EXTRUSION STRAINING
- 823 DICING
- 824 SPINNING TO FILAMENTS
- | 825 PULTRUSION (from 1994)
- | 826 COEXTRUSION (from 1994)

83 MOULDING AND VULCANISATION *(for other vulcanisation processes see 89, subdivisions of 283 in part only derived from this class)*

- 831 INJECTION MOULDING
 - 8311 Reaction injection moulding
- 832 BLOW MOULDING
- 833 TRANSFER MOULDING
- 834 COMPRESSION MOULDING
- 835 ROTATIONAL AND SLUSH MOULDING; CENTRIFUGAL CASTING
- 839 MOULD RELEASE AGENTS

84 CALENDERING AND LONGITUDINAL COVERING *(for coating see 872; subdivisions of 284 are not derived from this class)*

- 841 MEASURING OF CALENDERED SHEET
- 842 LONGITUDINAL COVERING, e.g. of cables
- 843 EMBOSSING
- 844 CORRUGATING

85 FORMING FROM SHEET *(subdivisions of 285 are not derived from this class)*

- 851 FREE BLOWING
- 852 PRESSURE FORMING
- 853 DEEP DRAWING
- 854 VACUUM FORMING
- 855 POST FORMING LAMINATES

86 OTHER SHAPING PROCESSES *(subdivisions of 286 derived from this class with the exception of the subdivisions of class 861)*

- 861 CASTING
 - 8611 Solvent casting
 - 8612 Casting in a mould
- 862 SINTERING
- 863 DIPPING
 - 8631 Latex dipping
 - 8632 Solution dipping
- 864 ELECTRODEPOSITION OF POLYMERS
- 865 SPRAYING

87 COATING AND IMPREGNATING *(for surface treatment of polymers see 8(11)34; subdivisions of 287 derived from this class)*

- 871 EXTRUSION, INCLUDING WIRE AND CABLE COVERING
- 872 CALENDERING
- 873 SPREADING
- 874 DIPPING
- 875 FLUIDISED BED
- 876 SOLUTION
- 877 SPRAYING
 - 8771 Cocooning

88 LAMINATING *(subdivisions of 288 in part only derived from this class)*

- 882 FILAMENT WINDING

89 VULCANISATION (CROSSLINKING) *(for moulding and vulcanisation see 83; subdivisions of 289 derived from this class)*

- 891 OPEN STEAM
- 892 HOT AIR
- 893 FLUID BED
- 894 LIQUID BATH
- 895 IRRADIATION
 - 8951 Radio frequency; microwave
 - 8952 X-rays
 - 8953 High energy radiation; infra red
- 896 ROOM TEMPERATURE CURES
 - 8961 Sulphur chloride
 - 8962 Other chemical cures

8(10) BONDING, WELDING, HEAT SEALING *(subdivisions of 28(10) derived from this class)*

- 8(10)1 BONDING AGENTS *(for adhesives other than bonding agents see 6A1; for theory of adhesion see 9(12)4)*
- 8(10)2 JOINING OF POLYMER TO ITSELF
 - 8(10)21 Stitching
 - 8(10)22 Solvent welding
 - 8(10)23 Bonding, cementing

-
- 8(10)231 Bonding agents
 - 8(10)24 Heat sealing
 - 8(10)241 Radio frequency welding, ultrasonic welding
 - 8(10)3 TO OTHER POLYMERS NOT IN TEXTILE FORM
 - 8(10)31 Bonding agents
 - 8(10)4 TO TEXTILES, INCLUDING POLYMERS IN TEXTILE FORM
 - 8(10)41 Bonding agents
 - 8(10)42 Cotton
 - 8(10)43 Rayon
 - 8(10)44 Nylon
 - 8(10)45 Terylene
 - 8(10)46 Glass fibre
 - 8(10)5 TO METALS
 - 8(10)51 Bonding agents
 - 8(10)52 Treatment of the metal, including brass plating
 - 8(10)53 Treatment of the polymer, including cyclisation (*for cyclisation in general see 6116*)
 - 8(10)6 TO GLASS
 - 8(10)7 TO WOOD
- 8(11) FABRICATING (*subdivisions of 28(11) derived from this class*)**
- 8(11)1 MACHINING, e.g. cutting, turning, buffing, filing, boring, drilling, etc.
 - 8(11)11 Sawing
 - 8(11)12 Slicing
 - 8(11)2 BUILDING OF TYRES, HOSE, FOOTWEAR, ETC.
 - 8(11)3 FINISHING
 - 8(11)31 Annealing, heat-setting, conditioning
 - 8(11)32 Orientation
 - 8(11)33 Flash removal
 - 8(11)331 Freezing
 - 8(11)332 Cutting and grinding
 - 8(11)34 Surface treatments
 - 8(11)341 Polishing
 - 8(11)3411 Tumbling
 - 8(11)342 Dusting and dusting agents
 - 8(11)3421 Talc (*for talc used as a filler see 51SM*)
 - 8(11)3422 Zinc stearate
 - 8(11)343 Fire proofing
 - 8(11)344 Antistatic coating
 - 8(11)345 Surface treatment to improve adhesion, corona discharge
 - 8(11)346 Decoration and printing
 - 8(11)3461 Embossing and ornamenting, other than by calendering
 - 8(11)3462 Painting and varnishing
 - 8(11)3463 Printing
 - 8(11)34631 Hot stamping
 - 8(11)34632 Silk screen
 - 8(11)3464 Metal coating
 - 8(11)3465 Flock coating
 - 8(11)347 Care and maintenance, e.g. cleaning and sterilising
 - 8(11)35 Cold rolling
- 8(12) REPAIRING AND RETREADING (*subdivisions of 28(12) derived from this class*)**
- 8(12)1 REPAIRING
 - 8(12)2 RETREADING

8(13) RECLAIMING OF POLYMERS (*subdivisions of 28(13) derived from this class*)

8(13)1 DEBEADING

8(13)2 DIGESTING

8(13)21 Thermal treatment

8(13)22 Acid treatment

8(13)23 Alkali treatment

8(13)24 Neutral treatment

8(13)3 BLENDING AND SCREENING

8(13)4 RECLAIMING AGENTS

| 8(13)5 INCINERATION, including energy recovery (from 1994)

| 8(13)6 DEPOLYMERISATION, CHEMICAL RECYCLING (from 1994)

9 PROPERTIES AND TESTING

Properties on their own or properties and testing together are indicated by using the class number alone; testing only is indicated by adding a T to the class number, e.g. 951 = tensile properties or tensile properties and tests; 951T = tensile tests.

The number 7 has not been used throughout this class in order to allow the subdivision 71 from class 7 to be added where required to Class 9 and all subdivisions of 9, without the use of a hyphen, to indicate designs, standards and specifications.

91 CHEMICAL CONSTITUTION (for analysis see 91T; for differential thermal analysis see 966T; for spectral analysis see 992T)**911 MOLECULAR WEIGHT, MOLECULAR STRUCTURE, DEGREE OF CROSSLINKING, CRYSTALLINE STRUCTURE**

- 9111 Crosslinking and vulcanisation phenomena
- 9112 Crystallinity and crystallisation (*see also 966*)
- 9113 Molecular structure and configuration
- 9114 Molecular weight
 - 91141 Molecular weight distribution, including fractionation

912 Acidity, basicity**92 ODOUR, TASTE, TOXICITY, STAINING POWER**

921 HEALTH AND INDUSTRIAL HAZARDS (*replaces class 15 and subdivisions of 15 from 1977 onwards; cross-refer to class 15 as required*)

93 AGEING, CHEMICAL ATTACK, AND SWELLING; INCLUDING ACCELERATED AGEING TESTS NOT SPECIFICALLY DEFINED

- 931 ACTION OF LIGHT
- 932 ACTION OF HEAT, INCLUDING HEAT AGEING TESTS
- 933 ACTION OF CATALYSTS, e.g. compounding ingredients and materials in external contact (copper, manganese)
- 934 ACTION OF OZONE
- 935 ACTION OF OTHER CHEMICALS; CHEMICAL RESISTANCE, CORROSION RESISTANCE e.g. of nitric acid, detergents
 - 9351 Absorption of and permeation by liquids and gases; permeability
 - 93511 By water and water vapour
 - 935111 Water-soluble polymers
 - 93512 By liquids other than water, including oil resistance and swelling
 - 93513 By gases other than water vapour
- 936 ACTION OF HIGH ENERGY RADIATION (*for radiation polymerisation see 72235; for radiation crosslinking see 895*)
- 938 BLOOMING, MIGRATION
- 939 BIOLOGICAL ATTACK, BIOCOMPATIBILITY
- 93(10) TACKINESS AS A RESULT OF AGEING (*for building tack see 9(12)4*)

94 COLLOIDAL PROPERTIES OF DISPERSIONS, INCLUDING MECHANICAL STABILITY

941 PARTICLE SIZE (*for particle size of solids see 9(11)2*)

95 MECHANICAL PROPERTIES**951 TENSILE, SHEAR, AND COMPRESSION PROPERTIES**

- 9511 Stress-strain properties, including cross-breaking, hardness, and softness (tensile, shear, and compression strength, compliance; modulus)
 - 95111 Tensile
 - 95112 Shear
 - 95113 Compression

- 95114 Hardness and softness
- 9512 Stress relaxation, creep, permanent set
- 9513 Hysteresis, resilience, energy absorption
- 9514 Volume changes
- 9515 Tear resistance
- 9516 Flex cracking, cut-growth, cutting resistance
- 9518 Impact resistance
- 952 FRICTIONAL RESISTANCE AND ABRASION RESISTANCE
- 9521 Frictional properties
- 9522 Abrasion resistance

96 THERMAL PROPERTIES AND FLAMMABILITY

- 961 THERMO-ELASTIC PROPERTIES
- 962 SPECIFIC HEAT
- 963 THERMAL CONDUCTIVITY AND THERMAL DIFFUSIVITY
- 964 THERMAL EXPANSION
- 965 HEAT OF COMBUSTION
- 966 TRANSITION PHENOMENA; FREEZING, CRYSTALLISATION, BRITTLE POINT, RUBBER/GLASS TRANSITION, MELTING POINT (*for nucleating agents see 59*)
- 968 FLAMMABILITY
- 969 THERMODYNAMIC PROPERTIES (Equation of state etc.) (from 1994)

98 ELECTRICAL AND MAGNETIC PROPERTIES

- 981 RESISTIVITY AND CONDUCTIVITY
- 982 PERMITTIVITY, POWER FACTOR, DIELECTRIC CONSTANT, DIELECTRIC LOSS, SPECIFIC INDUCTIVE CAPACITY
- 983 BREAKDOWN STRENGTH (DIELECTRIC STRENGTH, ELECTRIC STRENGTH)
- 984 TRACKING RESISTANCE
- 985 MAGNETIC PROPERTIES (*for electron spin resonance see 9928*)

99 OPTICAL PROPERTIES

- 991 MICROSCOPICAL PROPERTIES
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 - 9912 Electron
- 992 SPECTRA
 - 9921 Visual
 - 99211 Refractive index, transparency, birefringence
 - 9922 Infra-red
 - 9923 Ultraviolet
 - 9924 X-ray diffraction
 - 9925 Electron diffraction
 - 9926 Raman
 - 9928 Electron spin resonance (paramagnetic resonance)
 - 9929 Nuclear spin resonance, nuclear magnetic resonance, proton resonance
 - 992(10) Electron spectroscopy for chemical analysis (ESCA)
 - 992(11) Mass spectroscopy
 - 992(12) Neutron scattering, neutron diffraction, neutron reflection (from 1994)
 - 992(13) Fluorescence spectroscopy (from 1994)
- 993 Non-linear optical properties (from 1994)

9(10) RHEOLOGICAL PROPERTIES

- 9(10)1 PLASTICITY
- 9(10)2 MELT FLOW
- 9(10)3 SOLUTION AND DISPERSION VISCOSITY

9(11) MORPHOLOGICAL PROPERTIES AND PARTICLE SIZE OF SOLIDS

- 9(11)1 PARTICLE SHAPE, ANISOTROPY
- 9(11)2 PARTICLE SIZE (*for particle size of liquids see 941*)
- 9(11)3 DISPERSIVITY AND MISCIBILITY
- 9(11)4 ADSORPTION

9(12) MISCELLANEOUS PROPERTIES

- 9(12)1 SPECIFIC GRAVITY AND DENSITY, INCLUDING BULK DENSITY
- 9(12)2 POROSITY
 - 9(12)21 Pore structure of cellular materials
- 9(12)3 ACOUSTIC PROPERTIES
- 9(12)4 ADHESION AND BUILDING TACK (*for adhesives see 6A1; for tackifiers see 53T; for bonding agents see 8(10); for tackiness see 93(10)*)
- 9(12)5T NON-DESTRUCTIVE TESTING

1.4 GENERAL INDEX, INCLUDING MONOMERS

This index is a listing of terms found in the classification code and acts as an aid to finding the correct classification code number for each polymer, application, process etc.

A

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Piperazine

Piperidine

Pyridine

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Thiazines

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Piperazine

Piperidine

Pyridine

Thiazines

Triazine

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Borazoles

Imidazoles (1,3-diazoles)

benzimidazoles

Oxazole

Pyrazole

Pyrrrol

pyrrolidine

pyrrolidone

Thiazole

Triazole

AZOLES 33L

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Borazoles

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Oxazoles

Pyrazole

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pyrrolidine

pyrrolidone

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ZIEGLER NATTA CATALYSTS, see
POLYMERISATION CATALYSTS 722213
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55C, OXIDES 51QZ, PIGMENTS 52P12L)
ZINC POLYMERS AND COPOLYMERS 45
ZIRCONIUM COMPOUNDS 34
ZIRCONIUM POLYMERS AND COPOLYMERS 45

1.5 POLYMER INDEX

This index is provided as an additional aid to searching to be used in conjunction with the Classification Code. Terms have been compiled from Class 4 of the Classification Code and are listed in alphabetic order.

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2. CATEGORY CODES FOR RAPRA ABSTRACTS

AA	GENERAL
CA	COMMERCIAL AND ECONOMIC INFORMATION
CB	COMPANY ACTIVITIES
CC	PRODUCTION ORGANISATION AND PLANNING
CD	PURCHASING AND COSTING
CE	INDUSTRIAL RELATIONS AND PERSONNEL
CF	MARKETING
CG	STATISTICS AND ECONOMIC INFORMATION
CH	General
CI	Machinery
CJ	Raw materials and monomers
CK	Polymers
CL	Compounding ingredients
CM	Polymeric forms; powders, latices, etc.
CN	Semi-finished products; fibres; laminates, etc.
CO	Finished products and applications
EA	LEGISLATION AND STANDARDS
EN	ENVIRONMENTAL ISSUES
GA	INDUSTRIAL HEALTH AND SAFETY
IA	RAW MATERIALS AND MONOMERS
KA	POLYMERS AND POLYMERISATION
KB	POLYMERISATION PROCESSES AND CATALYSTS
KC	NATURAL POLYMERS AND CULTIVATION OF RUBBER
KD	ADDITION POLYMERS
KE	Aliphatic olefin polymers including polyethylene and polypropylene
KF	Aromatic olefin polymers including polystyrene
KG	Aliphatic-substituted olefin polymers
KH	Alcohol polymers
KI	Vinyl acetal polymers
KJ	Vinyl ester and allyl ester polymers
KK	Acrylic polymers
KL	Vinyl ether, aldehyde and ketone polymers
KM	Halo-olefin polymers including PVC and PTFE
KN	Nitrogen-containing polymers
KO	Diolefin polymers including polybutadiene and polyisoprene
KP	CONDENSATION POLYMERS
KQ	Polyesters (saturated), polycarbonates
KR	Polyamides, polyimides
KS	Polyethers
KT	Polyurethanes, polyureas
KU	Polyanhydrides
KV	Polyesters (unsaturated), epoxy resins, alkyd resins, polyanilines, polypyrroles
KW	CONDENSATION RESINS
KX	INORGANIC POLYMERS
KY	DIAZO DECOMPOSITION POLYMERS

MA	COMPOUNDING INGREDIENTS
MB	FILLERS AND REINFORCING AGENTS
MC	PIGMENTS AND DYES
MD	PLASTICISERS AND EXTENDERS
ME	PROTECTIVE AGENTS INCLUDING ANTIOXONANTS, ANTIOXIDANTS, STABILISERS AND FLAME RETARDANTS
MF	CROSSLINKING SYSTEMS
MG	ODORANTS
MH	BLOWING AGENTS
MI	SOLVENTS
MJ	SURFACTANTS AND OTHER PROCESSING AGENTS
MK	TEXTILES: FIBRES AND FABRICS
OA	INTERMEDIATE AND SEMI-FINISHED PRODUCTS
OB	LATICES, SOLUTIONS AND PLASTISOLS
OC	FOAMS
OD	BLENDS
OE	LIQUID POLYMERS AND LIQUID CRYSTALS
OF	THERMOPLASTIC RUBBERS
OG	MIXES AND COMPOUNDS
OH	POWDERS AND GRANULES
OI	EXTRUDATES AND PROFILES
OJ	SHEETING AND FILM
OK	LAMINATES AND REINFORCED PLASTICS
OL	COATED MATERIALS, COATED AND IMPREGNATED PAPER
OM	POLYMER BOUND FIBROUS MATERIALS
ON	POLYMER BOUND NON-FIBROUS MATERIALS
OO	SYNTHETIC LEATHER
OP	FIBRES AND FABRICS
OQ	SCRAP POLYMERS
PA	RELATING TO PARTICULAR INDUSTRIES AND FIELDS OF USE
PC	AGRICULTURE AND HORTICULTURE
PE	MILITARY
PG	BREWING
PJ	ENGINEERING
PL	ENERGY APPLICATIONS
PM	MARINE OTHER THAN TRANSPORT
PN	NUCLEAR INCLUDING DISPOSAL OF NUCLEAR WASTE
PO	OIL INDUSTRY
PP	PRINTING
QA	APPLICATIONS
QB	ADHESIVES, SEALANTS AND COATINGS
QC	BELTING
QD	CLOTHING AND FOOTWEAR
QE	DOMESTIC FURNISHINGS AND FITTINGS
QF	ELECTRICAL APPLICATIONS
QG	FANCY GOODS
QH	GAMES AND SPORTS GOODS
QI	HOSE, TUBING AND PIPING
QJ	JOINTS, SEALS, PACKINGS AND OTHER MECHANICAL PARTS
QK	OPTICAL, PHOTOGRAPHIC AND SCIENTIFIC EQUIPMENT
QL	INSULATION (NON-ELECTRICAL)
QM	POLYMERS USED AS CHEMICAL REAGENTS, MEMBRANES, CONTROLLED RELEASE
QN	TRANSPORT APPLICATIONS (LAND, SEA, AIR AND SPACE)

QO	PACKAGING CONTAINERS AND RELATED ACCESSORIES
QP	BUILDING PARTS, STRUCTURES AND OUTDOOR SURFACES, FLOORING AND ROOFING
QQ	MEDICAL, DENTAL AND VETERINARY APPLICATIONS
QR	TYRES, TRACKS AND WHEELS
QS	VIBRATION DAMPERS AND SHOCK ABSORBERS
QT	ROLLERS
QU	STATIONERS' GOODS
QV	MISCELLANEOUS GOODS
SA	PROCESSING AND TREATMENT (INCLUDING MACHINERY)
SB	PRELIMINARY PROCESSES
SC	EXTRUSION
SD	MOULDING
SE	CALENDERING
SF	SHEET FORMING
SG	OTHER SHAPING PROCESSES
SH	COATING AND IMPREGNATING
SI	LAMINATING
SJ	VULCANISATION
SK	BONDING
SL	MACHINING, FINISHING AND SURFACE TREATMENT
SM	REPAIRING AND RETREADING
SN	RECLAIMING
SO	CONTROL EQUIPMENT AND COMPUTER AIDED DESIGN AND MANUFACTURE ETC.
UA	PROPERTIES AND TESTING
UB	ANALYSIS AND TESTING
UC	STRUCTURE, MOLECULAR WEIGHT, CRYSTALLINITY AND CURING PHENOMENA
UD	ODOUR, TASTE AND TOXICITY
UE	AGEING, WEATHERING, CHEMICAL ATTACK AND DEGRADATION
UF	COLLOIDAL PROPERTIES
UG	MECHANICAL PROPERTIES
UH	THERMAL AND FLAMMABILITY PROPERTIES
UI	ELECTRICAL AND MAGNETIC PROPERTIES
UJ	OPTICAL PROPERTIES, INCLUDING SPECTROSCOPY AND MICROSCOPY
UK	RHEOLOGICAL PROPERTIES
UL	MORPHOLOGICAL PROPERTIES
UM	OTHER PROPERTIES, INCLUDING ADHESION
UN	NON-DESTRUCTIVE TESTING

3. CATEGORY CODES FOR ADHESIVES ABSTRACTS

AAA	GENERAL
ACA	COMMERCIAL AND ECONOMIC INFORMATION
ACB	Company Activities
ACG	Statistics and Economic Information
AEA	LEGISLATION AND STANDARDS
AEN	ENVIRONMENTAL ISSUES
AER	RECYCLING
AGA	INDUSTRIAL HEALTH AND SAFETY
AHA	ADHESIVE TYPES
AHC	Adhesive Tapes
AHE	Anaerobic
AHG	Contact Adhesives
AHJ	Hot Melts
AHM	Latex or Emulsion Based
AHP	Pressure Sensitive
AHS	Solvent Based
AHW	Structural
AHY	Water Based
AJA	SEALANTS
ALA	END USE APPLICATIONS
ALC	Automotive
ALE	Aerospace
ALF	Building
ALG	Electrical and Electronic
ALK	Engineering
ALM	Footwear and Clothing
ALP	Medical and Surgical
ALS	Packaging
ANA	MATERIALS
ANB	Plastics
ANC	Acrylic Polymers
AND	Epoxy Resins
ANE	Ethylene-Vinyl Acetate Copolymers
ANF	Phenolic Resins
ANG	Polyamides and Polyimides
ANH	Polyesters (unsaturated)
ANJ	Polyurethanes
ANK	Vinyl Polymers
ANN	Elastomers
ANP	Butyl Rubber
ANR	Natural Rubber
ANS	Polychloroprenes (Neoprene)

ANT	Polysulphides
ANU	Polyurethane Elastomers
ANV	Silicone Elastomers
ANW	Styrene Butadiene Rubber
ANX	Thermoplastic Elastomers
ANY	Natural, Animal and Inorganic Materials
ARA	ADHERENDS
ARB	Composites, Reinforced Plastics
ARC	Ceramics and Glass
ARD	Concrete, Brick and Plaster
ARE	Elastomers
ARG	Metals
ARJ	Paper and Board
ARL	Textiles and Fibres
ARM	Thermoplastics
ARP	Thermosets
ARS	Wood
ATA	ADDITIVES AND COMPOUNDING INGREDIENTS
ATC	Hardeners and Curing Agents
ATE	Solvents
ATG	Tackifiers
ATM	CURING METHODS
ATP	BONDING METHODS AND EQUIPMENT
ATS	Surface Treatment of Adherends (inc. coupling agents)
ATT	Solvent Bonding
ATW	Dispensers and Applicators
AUA	PROPERTIES AND TESTING (inc. equipment)
AUB	Analysis and Testing
AUC	Chemical, Structure and Curing Phenomena
AUD	Odour, Taste and Toxicity
AUE	Ageing, Weathering, and Chemical Resistance
AUG	Mechanical Properties
AUH	Thermal and Flammability Properties
AUI	Electrical Properties
AUJ	Optical Properties, including Spectroscopy and Microscopy
AUK	Rheological Properties
AUL	Morphological Properties
AUM	Adhesion Properties
AUN	Wettability
AUP	Bond and Peel Strength