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Plastics — Symbols and abbreviated terms —

Part 1:

Basic polymers and their special characteristics

Plastiques — Symboles et termes abrégés —

Partie 1: Polymères de base et leurs caractéristiques spéciales



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 1043-1 was prepared by Technical Committee ISO/TC 61, Plastics, Subcommittee SC 1, Terminology.

This fourth edition cancels and replaces the third edition (ISO 1043-1:2001), which has been technically revised.

ISO 1043 consists of the following parts, under the general title *Plastics* — *Symbols and abbreviated terms*:

- Part 1: Basic polymers and their special characteristics
- Part 2: Fillers and reinforcing materials
- Part 3: Plasticizers
- Part 4: Flame retardants

Plastics — Symbols and abbreviated terms —

Part 1:

Basic polymers and their special characteristics

1 Scope

This part of ISO 1043 defines abbreviated terms for the basic polymers used in plastics, symbols for components of these terms, and symbols for special characteristics of plastics. It includes only those abbreviated terms that have come into established use and its aim is both to prevent the occurrence of more than one abbreviated term for a given plastic and to prevent a given abbreviated term being interpreted in more than one way.

- NOTE 1 For symbols and abbreviated terms for fillers and reinforcing materials, see ISO 1043-2, for plasticizers see ISO 1043-3, and for flame retardants see ISO 1043-4. Nomenclature for rubbers and latices is given in ISO 1629. Nomenclature for thermoplastic elastomers is given in ISO 18064.
- NOTE 2 Guidance for the preparation of new abbreviated terms is given in Annex A, and reference lists of symbols for the components of plastics terms used to form the abbreviated terms for plastics are given in Annex B.
- NOTE 3 A classification of abbreviated terms for polymers grouped by type is given in Annex C.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 472, Plastics — Vocabulary

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 472 and the following apply.

3.1

abbreviated term

term resulting from the omission of any part of a term while designating the same concept

4 Use of symbols and abbreviated terms

- **4.1** Abbreviated terms for homopolymers, copolymers and natural polymers are given in Clause 5, symbols for special characteristics are given in Clause 6, the symbol for plastics recyclate is given in Clause 7, and examples of the use of symbols are given in Clause 8.
- **4.2** To distinguish the essential molecular characteristics within a given generic type of plastics material, additional symbols, with guidance for their use, are provided. The use of symbols for describing properties that can only be ascertained subjectively should be avoided since this can lead to confusion.

- The abbreviated terms are primarily intended to be a convenient shorthand for chemical names in publications and other written matter. The abbreviated terms are also useful for indicating the type of basic polymer in materials and products, e.g. ABS moulding material, PA film, PE sheeting and PVC pipe.
- 4.4 Only capital letters shall be used for symbols and abbreviated terms.

Term for material

epoxide; epoxy resin

- The first appearance of an abbreviated term in a text shall be enclosed in parentheses and shall be 4.5 preceded by the term written in full.
- The rules of the International Union of Pure and Applied Chemistry (IUPAC) for source-based names of polymers recommend the use of parentheses when the prefix "poly" is used with a monomer name consisting of two or more words. This practice is followed in this part of ISO 1043, but in common usage the enclosing marks are often omitted.
- No attempt is made formally to systematize a shorthand terminology of polymers. Terminology and 4.7 formulae designations for scientific literature in the field of natural and synthetic polymers have been elaborated by the Commission on Macromolecular Nomenclature of IUPAC. Any abbreviated terms published by this Commission are, in general, the same as in this part of ISO 1043.

Abbreviated terms for homopolymers, copolymers and natural polymers 5

The following list gives the preferred abbreviated terms for plastics materials, using the component symbols given in Annex B. For some established materials, the abbreviated terms are supplemented by symbols for special characteristics as defined in Clause 6.

For some materials, alternative abbreviated terms are often still used, and for information these are included after the name of the material.

Appreviated term	Term for material
AB	acrylonitrile-butadiene plastic
ABAK	acrylonitrile-butadiene-acrylate plastic; preferred term for ABA
ABS	acrylonitrile-butadiene-styrene plastic
ACS	acrylonitrile-(chlorinated polyethylene)-styrene; preferred term for ACPES
AEPDS	acrylonitrile-(ethylene-propylene-diene)-styrene plastic; preferred term for AEPDMS
AMMA	acrylonitrile-(methyl methacrylate) plastic
ASA	acrylonitrile-styrene-acrylate plastic
CA	cellulose acetate
CAB	cellulose acetate butyrate
CAP	cellulose acetate propionate
CEF	cellulose formaldehyde
CF	cresol-formaldehyde resin
CMC	carboxymethyl cellulose
CN	cellulose nitrate
COC	cycloolefin copolymer
CP	cellulose propionate
CTA	cellulose triacetate
EAA	ethylene-(acrylic acid) plastic
EBAK	ethylene-(butyl acrylate) plastic; preferred term for EBA
EC	ethyl cellulose
EEAK	ethylene-(ethyl acrylate) plastic; preferred term for EEA
EMA	ethylene-(methacrylic acid) plastic

ethylene-propylene plastic; preferred term for EPM

EP

E/P

Ahhraviated term

ETFE ethylene-tetrafluoroethylene plastic

EVAC¹⁾ ethylene-(vinyl acetate) plastic; preferred term for **EVA**

EVOH ethylene-(vinyl alcohol) plastic

FEP perfluoro(ethylene-propylene) plastic; preferred term for PFEP

FF furan-formaldehyde resin

HBV poly(3-hydroxybutyrate)-co-(3-hydroxyvalerate)

LCP liquid-crystal polymer

MABS (methyl methacrylate)-acrylonitrile-butadiene-styrene plastic

MBS (methyl methacrylate)-butadiene-styrene plastic

MC methyl cellulose

MF melamine-formaldehyde resin

MP melamine-phenol resin

MSAN α -methylstyrene-acrylonitrile plastic

PA polyamide

PAA poly(acrylic acid) **PAEK** polyaryletherketone PAI polyamidimide **PAK** polyacrylate **PAN** polyacrylonitrile **PAR** polyarylate **PARA** polyarylamide PB polybutene

PBAK poly(butyl acrylate)
PBD 1,2-polybutadiene

PBN poly(butylene naphthalate)
PBS poly(butylene succinate)

PBSA poly(butylene succinate adipate)PBT poly(butylene terephthalate)

PC polycarbonate

PCCE poly(cyclohexylene dimethylene cyclohexanedicarboxylate)

PCO polycycloolefin
PCL polycaprolactone

PCT poly(cyclohexylene dimethylene terephthalate)

PCTFE polychlorotrifluoroethylene
PDAP poly(diallyl phthalate)
PDCPD polydicyclopentadiene

PE polyethylene

PE-C² polyethylene, chlorinated; preferred term for CPE
PE-HD polyethylene, high density; preferred term for HDPE
PE-LD polyethylene, low density; preferred term for LDPE

PE-LLD polyethylene, linear low density; preferred term for LLDPE PE-MD polyethylene, medium density; preferred term for MDPE

PE-UHMW polyethylene, ultra high molecular weight; preferred term for **UHMWPE**

PE-VLD polyethylene, very low density; preferred term for **VLDPE**

PEC polyestercarbonate
PEEK polyetheretherketone

PEEST polyetherester

¹⁾ In ISO 1629, the abbreviated term for ethylene-(vinyl acetate) copolymer is EVM.

²⁾ In ISO 1629, the abbreviated term for chlorinated polyethylene is CM.

PEI polyetherimide **PEK** polyetherketone

PEN poly(ethylene naphthalate) **PEOX** poly(ethylene oxide) **PES** poly(ethylene succinate)

PESTUR polyesterurethane **PESU** polyethersulfone

PET poly(ethylene terephthalate)

PEUR polyetherurethane

PF phenol-formaldehyde resin

perfluoro(alkyl vinyl ether)-tetrafluoroethylene plastic **PFA**

polyhydroxyalkanoate PHA **PHB** poly(3-hydroxybutyrate)

ы polyimide $PIB^{3)}$ polyisobutylene **PIR** polyisocyanurate PK polyketone **PLA** poly(lactic acid) **PMI** polymethacrylimide **PMMA** poly(methyl methacrylate) **PMMI** poly(N-methylmethacrylimide) **PMP** poly(4-methylpent-1-ene) **PMS** $poly(\alpha$ -methylstyrene)

POM polyoxymethylene; polyacetal; polyformaldehyde

PP polypropylene

PP-E polypropylene, expandable; preferred term for EPP PP-HI polypropylene, high impact; preferred term for HIPP

PPE poly(phenylene ether) **PPOX** poly(propylene oxide) PPS poly(phenylene sulfide) **PPSU** poly(phenylene sulfone)

PS polystyrene

> PS-E polystyrene, expandable; preferred term for EPS PS-HI polystyrene, high impact; preferred term for HIPS

PS-S polystyrene, sulfonated

PSU polysulfone

PTFE polytetrafluoroethylene

PTT poly(trimethylene terephthalate)

PUR polyurethane **PVAC** poly(vinyl acetate)

PVAL poly(vinyl alcohol); preferred term for PVOH

PVB poly(vinyl butyral) poly(vinyl chloride) **PVC**

poly(vinyl chloride), chlorinated; preferred term for CPVC PVC-C **PVC-U** poly(vinyl chloride), unplasticized; preferred term for UPVC

PVDC poly(vinylidene chloride) **PVDF** poly(vinylidene fluoride) **PVF** poly(vinyl fluoride)

³⁾ In ISO 1629, the abbreviated term for polyisobutylene is IM.

PVFM	poly(vinyl formal)
PVK	poly(N-vinylcarbazole)
PVP	poly(N-vinylpyrrolidone)
SAN	styrene-acrylonitrile plastic
SB	styrene-butadiene plastic
SI ⁴⁾	silicone plastic
SMAH	styrene-(maleic anhydride) plastic; preferred term for S/MA or SMA
SMS	styrene-α-methylstyrene plastic
UF	urea-formaldehyde resin
UP	unsaturated polyester resin
VCE	(vinyl chloride)-ethylene plastic
VCEMAK	(vinyl chloride)-ethylene-(methyl acrylate) plastic; preferred term for VCEMA
VCEVAC	(vinyl chloride)-ethylene-(vinyl acetate) plastic
VCMAK	(vinyl chloride)-(methyl acrylate) plastic; preferred term for VCMA
VCMMA	(vinyl chloride)-(methyl methacrylate) plastic
VCOAK VCVAC	(vinyl chloride)-(octyl acrylate) plastic; preferred term for VCOA (vinyl chloride)-(vinyl acetate) plastic
VCVDC VE	(vinyl chloride)-(vinylidene chloride) plastic vinyl ester resin

Symbols for indication of special characteristics

The abbreviated terms for the basic polymers may be supplemented by up to four symbols (see the list below) to differentiate between or among modifications of the polymer, if desired. The supplementary symbol(s) shall be placed after the abbreviated term of the basic polymer, separated by a hyphen, with no spacing before or after the hyphen.

No symbol shall be placed in front of the abbreviated term for the basic polymer.

Symbol	Meaning
A	acid (modified)
Α	adipate
Α	amorphous; atactic
В	biaxial
В	block
В	brominated
С	chlorinated
С	crystalline; isotactic
D	density
E	epoxidized
E	expanded; expandable
F	flexible
F	fluid
F	fluorinated
G	glycol (modified)
Н	high
1	impact
L	linear
L	low
M	medium

⁴⁾ In ISO 1629, the generic abbreviated term for silicone polymers is Q.

M	molecular
N	normal
N	novolak
0	orientated
P	plasticized
P	thermoplastic
R	raised
R	random

R resol R rigid S saturated S sulfonated S syndiotactic S thermosetting

T temperature (resistance)

Т toughened U ultra

U unplasticized U unsaturated

very V W weight

crosslinked; crosslinkable X

7 Symbol for plastics recyclate

The symbol "(REC)" (made up of the capital letters REC enclosed in parentheses) is an option (according to ISO 14021:1999) that may be used in addition to the abbreviated term for the basic polymer and the symbols for the indication of special characteristics. The symbol "(REC)" for plastics recyclate shall always be at the last position of the abbreviated term and symbols used for the plastic.

If the percentage recycled content is available and a specific claim of recycling content has to be declared, the capital letters REC may be followed by a number indicating the minimum percentage by mass of the recycling content and the whole enclosed in parentheses, e.g. "(REC50)".

Examples of the use of symbols

EXAMPLE 1 Plasticized poly(vinyl chloride) = PVC-P

> Basic polymer PVC Plasticized

EXAMPLE 2 High-impact polystyrene = PS-HI

> Basic polymer PS High impact

EXAMPLE 3 Linear low-density polyethylene = PE-LLD

> Basic polymer PΕ Linear low density LLD

EXAMPLE 4 Poly(ethylene terephthalate) material resulting from the recycling of PET = PET(REC)

EXAMPLE 5 High-density polyethylene material resulting from the recycling of PE-HD = PE-HD(REC)

It should be understood that a plastics recyclate might contain constituents apart from the polymer type NOTE concerned.

Annex A

(informative)

Guide for preparing new abbreviated terms for basic polymers, mixtures of polymers and related terms

A.1 Use the letter P for "poly" to designate a homopolymer.

The letter P may also be used to designate a copolymer or other polymer when its omission would be confusing.

- A.2 Use only capital letters.
- EXAMPLE Poly(vinyl chloride) is designated PVC.
- **A.3** When duplication otherwise occurs or where confusion might otherwise result, use two or more capital letters for a given component, not necessarily in the order in which they occur in the component being designated.
- EXAMPLE 1 Polyacrylate is designated PAK.
- EXAMPLE 2 Polyarylate is designated PAR.
- EXAMPLE 3 Poly(vinyl formal) is designated PVFM.
- **A.4** For copolymers, use the symbols for the monomeric components in the order in which they occur in the term being designated. The symbols for the components generally appear from left to right in the order of decreasing mass ratio (mass percent) of the monomeric components in the copolymer.
- EXAMPLE 1 Acrylonitrile-(methyl methacrylate) plastic is designated AMMA.
- EXAMPLE 2 (Vinyl chloride)-ethylene-(methyl acrylate) plastic is designated VCEMAK.

A stroke "/" may be used to designate a copolymer when its omission would be confusing.

- EXAMPLE 3 E/P for ethylene-propylene plastic.
- **A.5** For polymer blends or alloys, use the abbreviated terms for the basic polymers, with the main component in first place followed by the other components in descending order of their mass fractions, separated by a plus sign.
- EXAMPLE A blend of polycarbonate and acrylonitrile-butadiene-styrene plastics is designated PC+ABS.

There should be no space before or after the "+" sign.

- **A.6** Use figures and letters after the symbols for the components (but before the symbols indicating special characteristics) to designate polymers prepared from various condensation units in a homologous series.
- EXAMPLE 1 A polymer of ε -caprolactam is designated PA6.
- EXAMPLE 2 A polymer of hexamethylenediamine, adipic acid and sebacic acid is designated PA66/610.
- EXAMPLE 3 A polymer of *m*-xylylenediamine and adipic acid is designated PAMXD6.

In each of the above three examples, PA indicates the polyamide and the figure refers to the number of carbon atoms in the monomer unit. When two monomers are involved, the first figure refers to the number of carbon atoms in the amine and the second to the number of carbon atoms in the acid. An oblique stroke is used to separate the polyamide components of copolyamides. Non-linear aliphatic units of polyamides and copolyamides are designated by letters. Details are listed in ISO 1874-1:2010, Table A.3.

The abbreviated terms for different materials used in the plastics industry should never be identical. On **A.7** the other hand, it is not feasible to avoid using abbreviated terms in the plastics industry that designate a different material in another industry. Adherence to the provision in Clause 4 for identification of the term for which the abbreviated terms is used at its first occurrence in the text will avoid possible confusion.

Annex B

(informative)

List of symbols used for components of abbreviated terms

B.1 List by symbol

Symbol	Component of term
A	acetate; acid; acryl; acrylate; acrylic; acrylonitrile; alkane; alkanoate; alkoxyl; allyl; amid;
• •	amide; aryl
AC	acetate
AH	anhydride
Al	amidimide
AK	acrylate
AL	alcohol
AN AR	acrylonitrile
AR B	aryl; arylate
BD	block; butadiene; butene; butyl; butylene; butyral; butyrate butadiene
C	capro; carbonate; carboxy; cellulose; chloride; chlorinated; chloro; copolymer; cresol;
C	crystal; cyclo; cyclohexylene dimethylene
CE	cellulose; cyclohexanedicarboxylate
D	di; diene
E	ester; ether; ethyl; ethylene
EP	epoxide; epoxy
EST	ester
F	fluoride; fluoro; formaldehyde; furan
FM	formal
Н	hydroxy
I	imide; iso
IR	isocyanurate
K	carbazole; ketone
L	lactic; lactone; liquid;
М	maleic; melamine; meth; methacryl; methacrylate; methyl; methylene; methyl methacrylate
MA	methacrylate; methacrylic acid
N	naphthalate; nitrate
0	octyl; olefin; oxy
ОН	alcohol
OX	oxide
Р	penta; pentene; per; phenol; phenylene; phthalate; poly; polyester; polymer; propionate; propylene; pyrrolidone
S	styrene; succinate; sulfide
SI	silicone
SU	sulfone
Т	terephthalate; tetra; tri; trimethylene
U	unsaturated; urea
UR	urethane
V	valerate; vinyl

vinylidene

VD

B.2 List by component of term

Component of term	Symbol	Component of term	Symbol
acetate	A, AC	ethylene	Е
acid	A	•	
acrylate	A, AK	fluoride	F
acrylic	Á	fluoro	F
acrylonitrile	A, AN	formal	FM
alcohol	AL, OH	formaldehyde	F
alkane	A	furan	F
alkanoate	A		-
alkoxyl	A	hydroxy	Н
allyl	A	nyaroxy	••
amid	A	imide	1
amide	A	iso	i
amidimide	Al		ı IR
	AH	isocyanurate	IIX
anhydride		katana	V
aryl	A, AR	ketone	K
arylate	AR	la atia	
	_	lactic	L
block	В	lactone	L
butadiene	B, BD	liquid	L
butene	B		
butyl	В	maleic	M
butylene	В	melamine	M
butyral	В	meth	M
butyrate	В	methacryl	M
		methacrylate	M, MA
capro	С	methacrylic acid	MA
carbazole	K	methyl	M
carbonate	С	methylene	M
carboxy	С	methyl methycrylate	M
cellulose	C, CE		
chloride	С	naphthalate	N
chlorinated	С	nitrate	N
chloro	С		
copolymer	С	octyl	0
cresol	С	olefine	0
crystal	С	oxy	0
cyclo	С	oxyde	ОХ
cyclohexanedicarboxylate	CE		
cyclohexylene dimethylene	С	penta	Р
		pentene	Р
di	D	per	Р
diene	D	phenol	Р
		phenylene	Р
epoxide	EP	phthalate	Р
ероху	EP	poly	P
ester	E, EST	polyester	P
ether	=, =0: E	polymer	P
ethyl	E	propionate	P
,	-	F 6.0	-

Component of term	Symbol	Component of term	Symbol
propylene	P	trimethylene	Т
pyrrolidone	Р	•	
		unsaturated	U
silicone	SI	urea	U
styrene	S	urethane	UR
succinate	S		
sulfide	S	valerate	V
sulfone	SU	vinyl	V
		vinylidene	VD
terephthalate	Т		
tetra	Т		
tri	Т		

Annex C

(informative)

Abbreviated terms for plastics grouped by type

C.1 Group A

NOTE The abbreviated terms in this group are simple abbreviations of the polymer names.

C.1.1 Homopolymers

Abbreviated term	Name of polymer	Abbreviated term	Name of polymer
PAA	poly(acrylic acid)	PP	polypropylene
PAN	polyacrylonitrile	PPE	poly(phenylene ether)
PB	polybutene	PPOX	poly(propylene oxide)
PBAK	poly(butyl acrylate)	PPS	poly(phenylene sulfide)
PBD	1,2-polybutadiene	PPSU	poly(phenylene sulfone)
PCL	polycaprolactone	PS	polystyrene
PCTFE	polychlorotrifluoroethylene	PTFE	polytetrafluoroethylene
PDCPD	polydicyclopentadiene	PVAC	poly(vinyl acetate)
PE	polyethylene	PVAL	poly(vinyl alcohol)
PEOX	poly(ethylene oxide)	PVB	poly(vinyl butyral)
PIB	polyisobutylene	PVC	poly(vinyl chloride)
PMI	polymethacrylimide	PVDC	poly(vinylidene chloride)
PMMA	poly(methyl methacrylate)	PVDF	poly(vinylidene fluoride)
PMMI	poly(N-methylmethacrylimide)	PVF	poly(vinyl fluoride)
PMP	poly(4-methylpent-1-ene)	PVFM	poly(vinyl formal)
PMS	poly(α-methylstyrene)	PVK	poly(N-vinylcarbazole)
POM	polyoxymethylene	PVP	poly(N-vinylpyrrolidone)

C.1.2 Copolymers

Abbreviated term	Name of polymer	Abbreviated term	Name of polymer
PBN PBT PCCE	poly(butylene naphthalate) poly(butylene terephthalate) poly(cyclohexylene dimethylene cyclohexanedicarboxylate)	PEN PES PET PTT	poly(ethylene naphthalate) poly(ethylene succinate) poly(ethylene terephthalate) poly(trimethylene terephthalate)
PCT	poly(cyclohexylene dimethylene terephthalate)		

C.1.3 Generic names

Abbreviated term	Name of polymer	Abbreviated term	Name of polymer
COC EP LCP PA PAEK PAI PAK PAR PARA PC PEC	cycloolefin copolymer epoxide liquid crystal polymer polyamide polyaryletherketone polyamidimide polyacrylate polyarylate polyarylamide polycarbonate polyestercarbonate polyetheretherketone	PEI PEK PESTUR PESU PEUR PI PIR PK PSU PUR SI UP	polyetherimide polyetherketone polyesterurethane polyethersulfone polyetherurethane polyimide polyisocyanurate polyketone polysulfone polyurethane silicone plastic unsaturated polyester resin
PEEST	polyetherester	VE	vinyl ester resin

C.1.4 Cellulose derivatives

Abbreviated term	Name of polymer	Abbreviated term	Name of polymer
CA CAB	cellulose acetate cellulose acetate butyrate	CN CP	cellulose nitrate cellulose propionate
CAP	cellulose acetate propionate	CTA	cellulose triacetate
CEF	cellulose formaldehyde	EC	ethyl cellulose
CMC	carboxymethyl cellulose	MC	methyl cellulose

C.2 Group B

NOTE The abbreviated terms in this group consist of the abbreviated monomer names. The full names of the polymers need an additional expression such as "plastic" or "resin".

C.2.1 Miscellaneous copolymers

Abbreviated term	Name of polymer	Abbreviated term	Name of polymer
AB	acrylonitrile-butadiene plastic	MABS	(methyl methacrylate)-acrylonitrile- butadiene-styrene plastic
ABAK	acrylonitrile-butadiene-acrylate plastic	MBS	(methyl methacrylate)-butadiene- styrene plastic
ABS	acrylonitrile-butadiene-styrene plastic	MSAN	α -methylstyrene-acrylonitrile plastic
ACS	acrylonitrile-(chlorinated polyethylene)-styrene plastic	PFA	perfluoro(alkyl vinyl ether)- tetrafluoroethylene plastic
AEPDS	acrylonitrile-(ethylene-propylene- diene)-styrene plastic	SAN	styrene-acrylonitrile plastic
AMMA	acrylonitrile-(methyl methacrylate) plastic	SB	styrene-butadiene plastic
ASA	acrylonitrile-styrene-acrylate plastic	SMS	styrene-α-methylstyrene plastic
EAA	ethylene-(acrylic acid) plastic	SMAH	styrene-(maleic anhydride) plastic
EBAK	ethylene-(butyl acrylate) plastic	VCE	(vinyl chloride)-ethylene plastic
EEAK	ethylene-(ethyl acrylate) plastic	VCEMAK	(vinyl chloride)-ethylene-(methyl acrylate) plastic
EMA	ethylene-(methacrylic acid) plastic	VCEVAC	(vinyl chloride)-ethylene-(vinyl acetate) plastic
E/P	ethylene-propylene plastic	VCMAK	(vinyl chloride)-(methyl acrylate) plastic
ETFE	ethylene-tetrafluoroethylene plastic	VCMMA	(vinyl chloride)-(methyl methacrylate) plastic
EVAC	ethylene-(vinyl acetate) plastic	VCOAK	(vinyl chloride)-(octyl acrylate) plastic
EVOH	ethylene-(vinyl alcohol) plastic	VCVAC	(vinyl chloride)-(vinyl acetate) plastic
FEP	perfluoro(ethylene-propylene) plastic	VCVDC	(vinyl chloride)-(vinylidene chloride) plastic

C.2.2 Network polymers

Abbreviated term	Name of polymer	Abbreviated term	Name of polymer
CF FF MF MP	cresol-formaldehyde resin furan-formaldehyde resin melamine-formaldehyde resin melamine-phenol resin	PDAP PF UF	poly(diallyl phthalate) resin phenol-formaldehyde resin urea-formaldehyde resin

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