



Standard Terminology for Abbreviated Terms Relating to Plastics¹

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This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope*

1.1 The purpose of this terminology is to provide uniform contractions of terms relating to plastics. Abbreviated terminology has evolved through widespread common usage. This compilation has been prepared to avoid both the occurrence of more than one abbreviated term for a given plastics term and multiple meanings for abbreviated terms.

1.2 The scope of these abbreviated terms includes plastics terms pertaining to composition and relating to type or kind according to mode of preparation or principle distinguishing characteristics. Also included are abbreviated terms for terms relating to copolymers, blends and alloys of plastics, and additives such as plasticizers, fillers, etc.

NOTE 1—A code relating to the composition of rubbers is given in Practice D1418.

1.3 No attempt is made here to systematize formally a shorthand terminology for polymers. Terminology, including nomenclature, codes, symbols, and formula designations for use in scientific literature in the field of natural and synthetic polymers, are being studied and standardized by the International Union of Pure and Applied Chemistry.²

1.4 These abbreviated terms are by no means all-inclusive of plastics terminology. They represent, in general, those terms that have come into established use. Since it is recognized that abbreviated terms serve no useful purpose unless they are generally accepted and used, no attempt has been made to establish a rigorous code for devising standard abbreviated terms. This would result in awkward departures from established usage of existing and accepted abbreviated terms and lead to cumbersome combinations in the future, which would not be likely to receive widespread acceptance. The abbreviated terms now in use have grown naturally out of the need for convenient, readily comprehended shorthand for long chemical names. This process can be expected to continue along the

natural lines of least resistance and will serve as a basis for further standardization as the need arises. A general guide for the preparation of abbreviated terms appears desirable, however, to facilitate more organized and uniform standardization in the future. An appendix is attached, which suggests a uniform way to prepare abbreviated terms.

1.5 Note that the uppercase letter F should be used to designate phosphate and that other elements may also be designated F.

1.6 An abbreviated term (FR) and code numbers are provided to identify classes of materials used as flame retardants added to plastics. The system is provided for use in situations where marking of plastics products is desired.

NOTE 2—Many of the abbreviated terms, codes, numbers, and symbols in ISO 1043 parts 1 through 4 and in ISO/DIS 1043-4 are the same as the corresponding item in ASTM D1600. D1600 includes a number of abbreviated terms that are not in ISO 1043.

2. Referenced Documents

2.1 ASTM Standards:³

D883 Terminology Relating to Plastics

D1418 Practice for Rubber and Rubber Latexes—Nomenclature

D1972 Practice for Generic Marking of Plastic Products (Withdrawn 2014)⁴

2.2 ISO Standards:⁵

ISO 472:1988 Plastics—Vocabulary

ISO 1043-1:2001 Plastics—Symbols—Part 1: Basic Polymers and Their Special Characteristics

ISO 1043-2:2000 Plastics—Symbols—Part 2: Fillers and Reinforcing Materials

ISO 1043-3:1996 Plastics—Symbols—Part 3: Plasticizers

ISO 1043-4:1998 Plastics—Symbols and Abbreviated Terms—Part 4: Flame Retardants

¹ This terminology is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.92 on Terminology.

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² “Report on Nomenclature in the Field of Macromolecules,” *Journal of Polymer Science*, Vol VIII, 1952, pp. 257–277.

³ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard’s Document Summary page on the ASTM website.

⁴ The last approved version of this historical standard is referenced on www.astm.org.

⁵ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

*A Summary of Changes section appears at the end of this standard

3. Terminology

3.1 Definitions:

3.1.1 For definitions of general terms, see Terminology **D883**.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *flame retardant, FR, n*—a substance that markedly retards the propagation of a flame. (See ISO 472.)

3.2.1.1 *Discussion*—Flame retardants may be incorporated in plastics as additives (external flame retardant) or as chemical groups in the base polymer by use of reactive intermediates in the polymerization process (internal flame retardant). The code numbers in this standard are restricted to external flame retardants.

4. Terms and Abbreviated Terms

4.1 Plastics and Resins:⁶

Term	Abbreviated Term	Term	Abbreviated Term
Acrylonitrile/butadiene plastics	AB	Epoxy, epoxide	EP
Acrylonitrile-butadiene-acrylate plastics	ABA	Ethyl cellulose	EC
Acrylonitrile-butadiene-styrene plastics	ABS	Ethylene acrylate	EA
Acrylonitrile-chlorinated polyethylene-styrene plastics	ACPES	Ethylene-chlorotrifluoroethylene copolymer	E-CTFE
Acrylonitrile-ethylene-styrene plastics	AES	Ethylene-ethyl acrylate plastics	EEA
Acrylonitrile-methyl acrylate-acrylonitrile-butadiene rubber	AMAB	Ethylene-methacrylic acid plastics	EMA
Acrylonitrile-methyl methacrylate plastics	AMMA	Ethylene-propylene polymer	EPM
Acrylonitrile-styrene-acrylate plastics	ASA	Ethylene-propylene-diene plastics	EPD
Acrylonitrile/ethylene-propylene-diene/styrene	AEPDMS	Ethylene-tetrafluoroethylene copolymer	ETFE
Aromatic polyester	ARP	Ethylene-vinyl acetate plastics	EVA
		Ethylene-vinyl alcohol copolymer	EVOH
Carboxymethyl cellulose	CMC	Fluorocarbon perfluoromethoxy	MPA
Casein	CS	Furan formaldehyde resin	FF
Caseine-formaldehyde resin	CSF		
Cellulose acetate	CA	General purpose polystyrene	GPPS
Cellulose acetate-butyrate	CAB		
Cellulose acetate propionate	CAP	High density polyethylene plastics	HDPE
Cellulose formaldehyde	CEF	High impact-resistant polystyrene	HIPS
Cellulose nitrate	CN		
Cellulose plastics, general	CE	Impact resistant polystyrene	IPS
Cellulose propionate	CP		
Cellulose triacetate	CTA	Linear low density polyethylene plastics	LLDPE
Chlorinated poly(vinyl chloride)	CPVC	Linear medium density polyethylene plastics	LMDPE
Chlorinated polyethylene	CPE	Liquid crystal polymer	LCP
Cresol-formaldehyde resin	CF	Low density polyethylene plastics	LDPE
		Medium density polyethylene plastics	MDPE
		Melamine-formaldehyde resin	MF
		Melamine/phenol-formaldehyde resin	MPF
		Methacrylate-butadiene-styrene plastics	MBS
		Methyl cellulose	MC
		Methyl methacrylate-acrylonitrile-butadiene-styrene resin	MMABS
		Nylon (see also polyamide)	PA
		Perfluoro(alkoxy alkane)	PFA
		Perfluoro(ethylene-propylene) copolymer	FEP
		Perfluoromethoxy resin	MFA
		Phenol-formaldehyde resin	PF
		Phenol-furfural resin	PFF
		Poly(acrylic acid)	PAA
		Poly(allyl diglycol carbonate)	PADC
		Poly(aryl ether ketone)	PAEK
		Poly(butyl acrylate)	PBA
		Poly(butylene adipate-co-succinate)	PBAS
		Poly(butylene adipate-co-terephthalate)	PBAT
		Poly(butylene succinate)	PBS
		Poly(butylene terephthalate)	PBT
		Poly(cyclohexylenedimethylene cyclohexandicarboxylate), glycoland acid comonomer	PCCE
		Poly(cyclohexylenedimethylene terephthalate)	PCT

⁶ To prevent any confusion with or misuse of the registered trademark, PET[®] Milk, the guidelines of 8.1 shall be followed.

Term	Abbreviated Term	Term	Abbreviated Term
Poly(cyclohexylenedimethylene terephthalate), acid comonomer	PCTA	Polyisobutylene	PIB
Poly(cyclohexylenedimethylene terephthalate), glycol	PCTG	Polyisocyanurate	PIR
Poly(diallyl phthalate)	PDAP	Polyketone	PK
Poly(ester urethane)	PAUR	Polymethacrylimide	PMI
Poly(ether block amide)	PEBA	Polyoxymethylene, polyacetal	POM
Poly(ether sulfone)	PES	Polyphenylene	PPH
Poly(ether urethane)	PEUR	Polyphthalamide	PPA
Poly(ethylene furanoate)	PEF	Polypropylene	PP
Poly(ethylene oxide)	PEOX	Homopolymer polypropylene	HPP
Poly(ethylene terephthalate)	PET ⁶	Random copolymer polypropylene	RPP
Poly(ethylene terephthalate) acid comonomer	PETA	Impact copolymer polypropylene	CPP
Poly(ethylene terephthalate) glycol comonomer	PETG	Polystyrene	PS
Poly(lactic acid)	PLA	Polysulfone	PSU
Poly(methyl methacrylate)	PMMA	Polytetrafluoroethylene	PTFE
Poly(methyl methacrylimide)	PMMI	Polyurethane	PUR
Poly(methyl- α -chloroacrylate)	PMCA		
Poly(phenyl sulfone)	PPSU	Saturated polyester plastic	SP
Poly(phenylene ether) (or Poly(phenylene oxide), a deprecated term)	PPE	Silicone plastics	SI
Poly(phenylene sulfide)	PPS	Styrene- α -methylstyrene plastic	SMS
Poly(phenylene sulfone)	PPSU	Styrene-acrylonitrile plastic	SAN
Poly(propylene oxide)	PPOX	Styrene-butadiene plastic	SB
Poly(vinyl acetate)	PVAC	Styrene-butadiene-styrene block copolymer	SBS
Poly(vinyl alcohol)	PVOH	Styrene-ethylene/butylene-styrene block copolymer	SEBS
Poly(vinyl butyral)	PVB	Styrene-ethylene/propylene-styrene block copolymer	SEPS
Poly(vinyl carbazole)	PVK	Styrene-isoprene-styrene block copolymer	SIS
Poly(vinyl chloride)	PVC	Styrene-maleic anhydride plastics	S/MA
Poly(vinyl chloride-acetate)	PVCA	Styrene-rubber plastics	SRP
Poly(vinyl fluoride)	PVF		
Poly(vinyl formal)	PVFM	Thermoplastic elastomer	TPE
Poly(vinyl pyrrolidone)	PVP	Thermoplastic elastomer, ether-ester	TEEE
Poly(vinylidene chloride)	PVDC	Thermoplastic elastomer, fully crosslinked elastomer alloy	FCEA
Poly(vinylidene fluoride)	PVDF	Thermoplastic elastomer, highly crosslinked thermoplastic vulcanizate	HCTPV
Poly(ϵ -caprolactone)	PCL	Thermoplastic elastomer, olefinic	TEO
Poly-4-methylpentene-1	PMP	Thermoplastic elastomer, polyether block amide	PEBA
Poly- α -methylstyrene	PMS	Thermoplastic elastomer, styrenic	TES
Poly-p-oxybenzoate	POB	Thermoplastic elastomer styrenic, saturated	TESS
Polyacrylonitrile	PAN	Thermoplastic elastomer styrenic, unsaturated	TESU
Polyamide (nylon)	PA	Thermoplastic polyester	TPES
Polyamide 10	PA10	Thermoplastic polyester:	
Polyamide 1010	PA1010	Copolyester [poly(aryl terephthalate)]	ARP
Polyamide 11	PA11	Polyarylate [poly(aryl terephthalate)]—liquid crystal	PAT
Polyamide 12	PA12	polymer	
Polyamide 1212	PA1212	Thermoplastic polyurethane	TPU
Polyamide 46	PA46	Thermoplastic polyurethane, reinforced	RTPU
Polyamide 410	PA410	Thermoplastic starch	TPS
Polyamide 6	PA6	Thermoset polyurethane	TSPU
Polyamide 610	PA610		
Polyamide 612	PA612		
Polyamide 66	PA66	Ultra-high molecular weight polyethylene	UHMWPE
Polyamide 69	PA69	Unsaturated polyester	UP
Polyamide 6I	PA6I	Urea-formaldehyde resin	UF
Polyamide 6T	PA6T		
Polyamide-imide	PAI	Vinyl chloride-ethylene resin	VCE
Polyarylate	PAR	Vinyl chloride-ethylene-methyl acrylate resin	VCEMA
Polyaryl amide	PARA	Vinyl chloride-ethylene-vinyl acetate resin	VCEVAC
Polyarylether	PAE	Vinyl chloride-methyl acrylate resin	VCMA
Polyarylsulfone	PAS	Vinyl chloride-methyl methacrylate resin	VCMAA
Polybutadiene-acrylonitrile	PBAN	Vinyl chloride-octyl acrylate resin	VCOA
Polybutadiene-styrene	PBS	Vinyl chloride-vinyl acetate resin	VCVAC
Polybutene-1	PB	Vinyl chloride-vinylidene chloride resin	VCDVC
Polycarbonate	PC	Vinylidene fluoride	VDF
Polychlorotrifluoroethylene	PCTFE		
Polyester alkyd (or polyacrylate)	PAK		
Polyetheretherketone	PEEK		
Polyetheretherketoneketone	PEEKK		
Polyetherketoneetherketoneketone	PEKEKK		
Polyetherketoneketone	PEKK		
Polyetherimide	PEI		
Polyetherketone	PEK		
Polyethylene	PE		
Poly(ethylene naphthalate)	PEN		
Polyhydroxy butyrate	PHB		
Polyimide	PI		
Polyimidesulfone	PISU		

4.2 Blends and Alloys of Plastics:

Term	Abbreviated Term
Acrylonitrile-butadiene-acrylate plastics + poly(methyl methacrylate)	ABA+PMMA
Acrylonitrile-butadiene-acrylate plastics+poly(vinyl chloride)	ABA+PVC
Acrylonitrile-butadiene-acrylate plastics+polycarbonate	ABA+PC
Acrylonitrile-butadiene-styrene plastics+poly(vinyl chloride)	ABS+PVC
Acrylonitrile-butadiene-styrene plastics+polyphenylene sulfone	ABS+PPSU

Term	Abbreviated Term	Term	Abbreviated Term
Acrylonitrile-butadiene-styrene plastics+polytetrafluoroethylene	ABS+PTFE	Diisohexyl phthalate	DIHXP
Acrylonitrile-butadiene-styrene plastics+styrene maleic anhydride	ABS+SMA	Diisononyl adipate	DINA
Acrylonitrile-butadiene-styrene plastics+thermoplastic polyurethane	ABS+TPU	Diisononyl phthalate	DINP
Acrylonitrile-butadiene-styrene plastics+polyamide	ABS+PA	Diisooctyl adipate	DIOA
Acrylonitrile-butadiene-styrene plastics+polycarbonate	ABS+PC	Diisooctyl phthalate	DIOP
Acrylonitrile-styrene-acrylate plastics+poly(methyl methacrylate)	ASA+PMMA	Diisopentyl phthalate	DIPP
Acrylonitrile-styrene-acrylate plastics+polycarbonate	ASA+PC	Diisotridecyl phthalate	DITDP
Fully crosslinked elastomeric alloy	FCEA	Dimethyl phthalate	DMP
Poly(butylene terephthalate)+poly(ethylene terephthalate)	PBT+PET ⁶	Dinonyl phthalate	DNP
Poly(butylene terephthalate)+rubber	Abbreviated	Diocetyl adipate	DOA
Poly(ethylene naphthalate)	PBT+RBR	Diocetyl azelate	DOZ
Poly(ethylene terephthalate)+poly(methyl methacrylate)	PEN	Diocetyl isophthalate (di-2-ethylhexyl isophthalate)	DOIP
Poly(ethylene terephthalate)+poly(phenylene sulfone)	PET ⁶ +PMMA	Diocetyl phthalate	DOP
Poly(ethylene terephthalate)+rubber	PET ⁶ +PPSU	Diocetyl sebacate	DOS
Poly(phenylene ether)+impact resistant polystyrene	PET ⁶ +RBR	Diocetyl terephthalate (di-2-ethylhexyl terephthalate)	DOTP
Poly(phenylene sulfide)+polytetrafluoroethylene	PPE+IPS	Diphenyl octyl phosphate	DPOF
Poly(vinyl chloride)+chlorinated polyethylene	PPS+PTFE	Diphenyl cresyl phosphate	DPCF
Poly(vinyl chloride)+nitrite-butadiene rubber	PVC+CPE	Diphenyl 2-ethylhexyl phosphate	DPOF
Poly(vinyl chloride)+poly(methyl methacrylate)	PVC+NBR	Diundecyl phthalate	DUP
Poly(vinyl chloride) plastics+polyurethane	PVC+PMMA	Epoxidized linseed oil	ELO
Polyamide (amorphous) blend	PVC+PUR	Epoxidized soya bean oil	ESO
Polyamide plastics+ethylene-methacrylic acid (ionomer)	PA +	Heptyl nonyl undecyl adipate	HNUA
Polyamide+poly(phenylene ether)	PA+EMA	Heptyl nonyl undecyl phthalate	HNUP
Polyamide+polyethylene	PA+PPE	Hexyl octyl decyl adipate	HXODA
Polyamide+rubber	PA+PE	Hexyl octyl decyl phthalate	HXODP
Polyamide+styrene-acrylonitrile plastics	PA+RBR	n-Octyl decyl trimellitate	ODTM
Polycarbonate+poly(butylene terephthalate)	PA+SAN	Nonyl undecyl adipate	NUA
Polycarbonate+poly(ethylene terephthalate)	PC+PBT	Nonyl undecyl phthalate	NUP
Polycarbonate+polyethylene	PC+PET ⁶	Octyl decyl adipate	ODA
Polycarbonate+styrene-maleic anhydride	PC+PE	Octyl decyl phthalate	ODP
Polycarbonate+thermoplastic polyurethane	PC+SMA	Tetraoctyl pyromellitate (tetra-2-ethylhexyl pyromellitate)	TOPM
Polyoxymethylene+polytetrafluoroethylene	PC+TPU	Trichloroethyl phosphate	TCEF
Polyoxymethylene+rubber	POM+PTFE	Tricresyl phosphate (or tritolyl phosphate)	TCF
Polyurethane+polyisocyanate	POM+RBR	Triheptyl trimellitate	THTM
Styrene-maleic anhydride plastics+impact resistant polystyrene	PUR+PIR	Triisooctyl trimellitate	TIOTM
Thermoplastic elastomer-chlorinated ethylene alloy	SMA+IPS	Triocetyl phosphate	TOF
	TECEA	Triocetyl trimellitate (tri-2-ethylhexyl trimellitate)	TOTM
		Triphenyl phosphate	TPP
		Trixylyl phosphate	TXF

4.4 Monomers:

NOTE 3—In general, blends and alloys of plastics shall be identified as Abbreviation 1+ Abbreviation 2 + Abbreviation n, where abbreviation n represents the abbreviation for component n, and the percentage, by weight, of component 1 > the percentage, by weight of component 2 > the percentage, by weight of component n.

4.3 Plastic and Resin Additives:

Term	Abbreviated Term	Term	Abbreviated Term
Alkylsulfonic acid ester	ASE	Adipic acid	AA
Benzyl butyl phthalate	BBP	Allyl diglycol carbonate	ADC
Benzyl octyl adipate (benzyl 2-ethylhexyl adipate)	BOA	Butanediol	BD
Benzyl octyl phthalate (benzyl 2-ethylhexyl phthalate)	BOP	Chlorotrifluoroethylene	CTFE
Di-n-octyl phthalate	DNOP	Diallyl chlorendate (diallyl ester of 1,4,5,6,7,7-hexa chlorobicyclo-(2,2,1)-5-heptene-2,3 -dicarboxylic acid)	DAC
Dibutylphthalate	DBP	Diallyl fumarate	DAF
Dibutyl sebacate	DBS	Diallyl isophthalate	DAIP
Dicapryl phthalate	DCP	Diallyl maleate	DAM
Dicyclohexyl phthalate	DCHP	Diallyl phthalate (diallyl orthophthalate)	DAP
Didecyl phthalate	DDP	Ethylene	ET
Diethyl phthalate	DEP	Ethylene Glycol	EG
Diheptyl phthalate	DHP	Lactic acid	LA
Dihexyl phthalate	DHXP	Methyl methacrylate	MMA
Diisobutyl phthalate	DIBP	Propylene	PR
Diisodecyl adipate	DIDA	Succinic acid	SA
Diisodecyl phthalate	DIDP	p-Terephthalic acid	PTA
Diisooctyl phthalate	DIHP		

Term	Abbreviated Term	Term	Abbreviated Term
Tetrafluoroethylene	TFE	Diallyl chlorendate (diallyl ester of 1,4,5,6,7,7-hexachloro-	DAC
Triallyl cyanurate	TAC	bicyclo-(2,2,1)-5-heptene-2,3-dicarboxylic acid)	

4.5 Miscellaneous Plastics Terms:

Term	Abbreviated Term	Term	Abbreviated Term
General purpose	GP	Diallyl fumarate	DAF
Single stage	SS	Diallyl isophthalate	DAIP
		Diallyl maleate	DAM
		Diallyl phthalate (diallyl orthophthalate)	DAP
		Dibutyl phthalate	DBP
		Dibutyl sebacate	DBS
		Dicapryl phthalate	DCP
		Dicyclohexyl phthalate	DCHP
		Didecyl phthalate	DDP
		Diethyl phthalate	DEP
		Diheptyl phthalate	DHP
		Dihexyl phthalate	DHXP
		Diisobutyl phthalate	DIBP
		Diisodecyl adipate	DIDA
		Diisodecyl phthalate	DIDP
		Diisoheptyl phthalate	DIHP
		Diisohexyl phthalate	DIHXP
		Diisononyl adipate	DINA
		Diisononyl phthalate	DINP
		Diisooctyl adipate	DIOA
		Diisooctyl phthalate	DIOF
		Diisopentyl phthalate	DIPP
		Diisotridecyl phthalate	DITDP
		Dimethyl phthalate	DMP
		Dinonyl phthalate	DNP
		Diocetyl adipate	DOA
		Diocetyl azelate	DOZ
		Diocetyl isophthalate (di-2-ethylhexyl isophthalate)	DOIP
		Diocetyl phthalate	DOP
		Diocetyl sebacate	DOS
		Diocetyl terephthalate (di-2-ethylhexyl terephthalate)	DOTP
		Diphenyl 2-ethylhexyl phosphate	DPOF
		Diphenyl cresyl phosphate	DPCF
		Diphenyl octyl phosphate	DPOF
		Diundecyl phthalate	DUP

NOTE 4—When listing one or more components, the order preferably should be in decreasing amount by mass. There are situations, however, where long standing usage indicates that this recommendation should not be followed. An example is ETFE.

5. Full List by Term and Abbreviated Term

Term	Abbreviated Term	Term	Abbreviated Term
Acrylonitrile-butadiene-acrylate plastics+poly(methyl methacrylate)	ABA+PMMA	Epoxidized linseed oil	ELO
Acrylonitrile-butadiene-acrylate plastics+poly(vinyl chloride)	ABA+PVC	Epoxidized soya bean oil	ESO
Acrylonitrile-butadiene-acrylate plastics+polycarbonate	ABA+PC	Epoxy, epoxide	EP
Acrylonitrile-butadiene-acrylate plastics	ABA	Ethyl cellulose	EC
Acrylonitrile-butadiene-styrene plastics+poly(vinyl chloride)	ABS+PVC	Ethylene	ET
Acrylonitrile-butadiene-styrene plastics+polyphenylene sulfone	ABS+PPSU	Ethylene acrylate	EA
Acrylonitrile-butadiene-styrene plastics+polytetrafluoroethylene	ABS+PTFE	Ethylene-chlorotrifluoroethylene copolymer	E-CTFE
Acrylonitrile-butadiene-styrene plastics+styrene maleic anhydride	ABS+SMA	Ethylene-ethyl acrylate plastics	EEA
Acrylonitrile-butadiene-styrene plastics+thermoplastic polyurethane	ABS+TPU	Ethylene Glycol	EG
Acrylonitrile-butadiene plastics	AB	Ethylene-methacrylic acid plastics	EMA
Acrylonitrile-butadiene-styrene plastics+polyamide	ABS+PA	Ethylene-propylene polymer	EPM
Acrylonitrile-butadiene-styrene plastics+polycarbonate	ABS+PC	Ethylene-propylene-diene plastics	EPD
Acrylonitrile-chlorinated polyethylene-styrene plastics	ACPES	Ethylene-tetrafluoroethylene copolymer	ETFE
Acrylonitrile-ethylene-styrene plastics	AES	Ethylene-vinyl acetate plastics	EVA
Acrylonitrile-methyl acrylate-acrylonitrile-butadiene rubber	AMAB	Ethylene-vinyl alcohol copolymer	EVOH
Acrylonitrile-methyl methacrylate plastics	AMMA		
Acrylonitrile-styrene-acrylate plastics+poly(methyl methacrylate)	ASA+PMMA	Fluorocarbon perfluoromethoxy	MPA
Acrylonitrile-styrene-acrylate plastics+poly(vinyl chloride)	ASA+PVC	Fully crosslinked elastomeric alloy	FCEA
Acrylonitrile-styrene-acrylate plastics	ASA	Furan-formaldehyde resin	FF
Acrylonitrile-styrene-acrylate plastics+polycarbonate	ASA+PC		
Acrylonitrile/ethylene-propylene-diene/styrene plastics	AEPDMS	General purpose	GP
Adipic Acid	AA	General purpose polystyrene	GPPS
Alkylsulfonic acid ester	ASE		
Allyl diglycol carbonate	ADC	Heptyl nonyl undecyl adipate	HNUA
Aromatic polyester	ARP	Heptyl nonyl undecyl phthalate	HNUP
		Hexyl octyl decyl adipate	HXODA
Benzyl butyl phthalate	BBP	Hexyl octyl decyl phthalate	HXODP
Benzyl octyl adipate (benzyl 2-ethylhexyl adipate)	BOA	High density polyethylene plastics	HDPE
Benzyl octyl phthalate (benzyl 2-ethylhexyl phthalate)	BOP	High impact-resistant polystyrene	HIPS
Butanediol	BD	Homopolymer polypropylene	HPP
Carboxymethyl cellulose	CMC	Impact copolymer polypropylene	CPP
Casein	CS	Impact resistant polystyrene	IPS
Caseine-formaldehyde resin	CSF		
Cellulose acetate	CA	Lactic acid	LA
Cellulose acetate-butyrate	CAB		
Cellulose acetate-propionate	CAP		
Cellulose formaldehyde	CEF		
Cellulose nitrate	CN		
Cellulose plastics, general	CE		
Cellulose propionate	CP		
Cellulose triacetate	CTA		
Chlorinated poly(vinyl chloride)	CPVC		
Chlorinated polyethylene	CPE		
Chlorotrifluoroethylene	CTFE		
Cresol-formaldehyde resin	CF		
Di-n-octyl phthalate	DNOP		

Term	Abbreviated Term	Term	Abbreviated Term
Linear low density polyethylene plastics	LLDPE	Poly(vinyl chloride)+nitrile-butadiene rubber	PVC+NBR
Linear medium density polyethylene plastics	LMDPE	Poly(vinyl chloride)+poly(methyl methacrylate)	PVC+PMMA
Liquid crystal polymer	LCP	Poly(vinyl chloride) plastics+polyurethane	PVC+PUR
Low density polyethylene plastics	LDPE	Poly(vinyl chloride-acetate)	PVCA
		Poly(vinyl fluoride)	PVF
Medium density polyethylene plastics	MDPE	Poly(vinyl formal)	PVFM
Melamine-formaldehyde resin	MF	Poly(vinyl pyrrolidone)	PVP
Melamine/phenol-formaldehyde resin	MPF	Poly(vinylidene chloride)	PVDC
Methacrylate-butadiene-styrene plastics	MBS	Poly(vinylidene fluoride)	PVDF
Methyl cellulose	MC	Poly(ϵ -caprolactone)	PCL
Methyl methacrylate	MMA	Poly-4-methyl pentene-1	PMP
Methyl methacrylate-acrylonitrile-butadiene-styrene resin	MMABS	Poly- α -methylstyrene	PMS
		Poly-p-oxybenzoate	POB
		Polyacrylonitrile	PAN
n-Octyl decyl trimellitate	ODTM	Polyamide (amorphous) blend	PA +
Nonyl undecyl adipate	NUA	Polyamide (nylon)	PA
Nonyl undecyl phthalate	NUP	Polyamide 10	PA10
Nylon (See also <i>polyamide</i>)	PA	Polyamide 1010	PA1010
		Polyamide 11	PA11
Octyl decyl adipate	ODA	Polyamide 12	PA12
Octyl decyl phthalate	ODP	Polyamide 1212	PA1212
		Polyamide 46	PA46
Perfluoro(alkoxy alkane)	PFA	Polyamide 6	PA6
Perfluoro(ethylene-propylene) copolymer	FEP	Polyamide 610	PA610
Perfluoromethoxy resin	MFA	Polyamide 612	PA612
Phenol-formaldehyde resin	PF	Polyamide 66	PA66
Phenol-furfural resin	PFF	Polyamide 69	PA69
Poly(acrylic acid)	PAA	Polyamide 6I	PA6I
Poly(allyl diglycol carbonate)	PADC	Polyamide 6T	PA6T
Poly(aryl ether ketone)	PAEK	Polyamide plastics+ethylene-methacrylic acid (ionomer)	PA+EMA
Poly(butyl acrylate)	PBA	Polyamide+poly(phenylene ether)	PA+PPE
Poly(butylene terephthalate)	PBT	Polyamide+polyethylene	PA+PE
Poly(butylene terephthalate)+poly(ethylene terephthalate)	PBT+PET ⁶	Polyamide+rubber	PA+RBR
Poly(butylene terephthalate)+poly(phenylene ether)	PBT+PPE	Polyamide+styrene-acrylonitrile plastics	PA+SAN
Poly(butylene terephthalate)+rubber	PBT+RBR	Polyamide-imide	PAI
Poly(cyclohexylenedimethylene cyclohexanedicarboxylate), glycol and acid comonomer	PCCE	Polyarylate	PAR
Poly(cyclohexylenedimethylene terephthalate)	PCT	Polyaryl amide	PARA
Poly(cyclohexylenedimethylene terephthalate), acid comonomer	PCTA	Polyarylether	PAE
Poly(cyclohexylenedimethylene terephthalate), glycol	PCTG	Polyarylsulfone	PASU
Poly(diallyl phthalate)	PDAP	Polybutadiene-acrylonitrile	PBAN
Poly(ester urethane)	PAUR	Polybutadiene-styrene	PBS
Poly(ether block amide)	PEBA	Polybutene-1	PB
Poly(ether sulfone)	PES	Polycarbonate	PC
Poly(ether urethane)	PEUR	Polycarbonate+poly(butylene terephthalate)	PC+PBT
Poly(ethylene furanoate)	PEF	Polycarbonate+poly(ethylene terephthalate)	PC+PC+PET ⁶
Poly(ethylene naphthalate)	PEN	Polycarbonate+polyethylene	PC+PE
Poly(ethylene oxide)	PEOX	Polycarbonate+styrene-maleic anhydride	PC+SMA
Poly(ethylene terephthalate)	PET ⁶	Polycarbonate+thermoplastic polyurethane	PC+TPU
Poly(ethylene terephthalate)+poly(methyl methacrylate)	PET ⁶ +PMMA	Polychlorotrifluoroethylene	PCTFE
Poly(ethylene terephthalate)+poly(phenylene sulfone)	PET ⁶ +PPSU	Polyester alkyd (or polyacrylate)	PAK
	PET ⁶ +RBR	Polyester, thermoplastic; polyarylate [poly(aryl terephthalate)]—liquid crystal polymer	PAT
Poly(ethylene terephthalate) acid	PETA	Polyetheretherketone	PEEK
Poly(ethylene terephthalate), glycol comonomer	PETG	Polyetheretherketoneketone	PEEKK
Poly(lactic acid)	PLA	Polyetherketoneetherketoneketone	PEKEKK
Poly(methyl methacrylate)	PMMA	Polyetherketoneketone	PEKK
Poly(methyl methacrylimide)	PMMI	Polyetherizimide	PEI
Poly(methyl- α -chloroacrylate)	PMCA	Polyetherketone	PEK
Poly(phenyl sulfone)	PPSU	Polyethylene	PE
Poly(phenylene ether) (or poly(phenylene oxide), a deprecated term)	PPE	Polyhydroxy butyrate	PHB
Poly(phenylene ether)+impact resistant polystyrene	PPE+IPS	Polyhydroxy butyrate-polyhydroxy valerate	PHBV
Poly(phenylene sulfide)	PPS	Polyimide	PI
Poly(phenylene sulfide)+polytetrafluoroethylene	PPS+PTFE	Polyimidesulfone	PISU
Poly(phenylene sulfone)	PPSU	Polyisobutylene	PIB
Poly(propylene oxide)	PPOX	Polyisocyanurate	PIR
Poly(vinyl acetate)	PVAC	Polyketone	PK
Poly(vinyl alcohol)	PVOH	Polymethacrylimide	PMI
Poly(vinyl butyral)	PVB	Polyoxymethylene+polytetrafluoroethylene	POM+PTFE
Poly(vinyl carbazole)	PVK	Polyoxymethylene+rubber	POM+RBR
Poly(vinyl chloride)	PVC	Polyoxymethylene, polyacetal	POM
Poly(vinyl chloride)+chlorinated polyethylene	PVC+CPE	Polyphenylene	PPH
		Polyphthalamide	PPA
		Polypropylene	PP
		Homopolymer polypropylene	HPP

Term	Abbreviated Term	6. Full List by Abbreviated Term	Abbreviated Term	Term
Random copolymer polypropylene	RPP	AB	Acrylonitrile/butadiene plastics	
Impact copolymer polypropylene	CPP	ABA	Acrylonitrile-butadiene-acrylate plastics	
Polystyrene	PS	ABA+PC	Acrylonitrile-butadiene-acrylate+polycarbonate	
Polysulfone	PSU	ABA+PMMA	Acrylonitrile-butadiene-acrylate+poly(methyl methacrylate)	
Polytetrafluoroethylene	PTFE	ABA+PVC	Acrylonitrile-butadiene-acrylate+poly(vinyl chloride)	
Polyurethane	PUR	ABS	Acrylonitrile-butadiene-styrene plastics	
Polyurethane+polyisocyanate	PUR+PIR	ABS+PA	Acrylonitrile-butadiene-styrene plastics+polyamide	
Propylene	PR	ABS+PC	Acrylonitrile-butadiene-styrene plastics+polycarbonate	
Random copolymer polypropylene	RPP	ABS+PPSU	Acrylonitrile-butadiene-styrene+polyphenylene sulfone	
Saturated polyester plastic	SP	ABS+PTFE	Acrylonitrile-butadiene-styrene+polytetrafluoroethylene	
See TCF	TTP	ABS+PVC	Acrylonitrile-butadiene-styrene+poly(vinyl chloride)	
Silicone plastics	SI	ABS+SMA	Acrylonitrile-butadiene-styrene+styrene maleic anhydride	
Single stage	SS	ABS+TPU	Acrylonitrile-butadiene-styrene+thermoplastic polyurethane	
Styrene- α -methylstyrene plastic	SMS	ACPES	Acrylonitrile-chlorinated polyethylene-styrene plastics	
Styrene-acrylonitrile plastic	SAN	ADC	Allyl diglycol carbonate	
Styrene-butadiene plastics	SB	AEPDMS	Acrylonitrile/ethylene-propylene-diene/styrene plastics	
Styrene-butadiene-styrene block copolymer	SBS	AES	Acrylonitrile-ethylene-styrene plastics	
Styrene-ethylene/butylene-styrene block copolymer	SEBS	AMMA	Acrylonitrile-methyl methacrylate plastics	
Styrene-ethylene/propylene-styrene block copolymer	SEPS	ARP	Aromatic polyester	
Styrene-isoprene-styrene block copolymer	SIS	ARP	Thermoplastic polyester, (polyaryl terephthalate)	
Styrene-maleic anhydride plastics+impact resistant polystyrene	SMA+IPS	ASA	Acrylonitrile-styrene-acrylate plastics	
Styrene-maleic anhydride plastics	S/MA	ASA+PC	Acrylonitrile-styrene-acrylate plastics+polycarbonate	
Styrene-rubber plastics	SRP	ASA+PMMA	Acrylonitrile-styrene-acrylate+poly(methyl methacrylate)	
Succinic acid	SA	ASE	Acrylonitrile-styrene-acrylate+poly(vinyl chloride)	
p-Terephthalic acid	PTA	BBP	Alkylsulfonic acid ester	
Tetrafluoroethylene	TFE	BD	Benzyl butyl phthalate	
Tetraoctyl pyromellitate (tetra-2-ethylhexyl pyromellitate)	TOPM	BOA	Butanediol	
Thermoplastic elastomer	TPE	BOP	Benzyl octyl adipate (benzyl 2-ethylhexyl adipate)	
Thermoplastic elastomer, ether-ester	TEEE	CA	Benzyl octyl phthalate (benzyl 2-ethylhexyl phthalate)	
Thermoplastic elastomer, fully crosslinked elastomer alloy	FCEA	CAB	Cellulose acetate	
Thermoplastic elastomer, highly crosslinked thermoplastic vulcanizate	HCTPV	CAP	Cellulose acetate-butyrate	
Thermoplastic elastomer, olefinic	TEO	CE	Cellulose acetate-propionate	
Thermoplastic elastomer, polyether block amide	PEBA	CEF	Cellulose plastics, general	
Thermoplastic elastomer, styrenic	TES	CF	Cellulose formaldehyde	
Thermoplastic elastomer styrenic, saturated	TESS	CMC	Cresol-formaldehyde resin	
Thermoplastic elastomer styrenic, unsaturated	TESU	CN	Carboxymethyl cellulose	
Thermoplastic elastomer-chlorinated ethylene alloy	TECEA	CP	Cellulose nitrate	
Thermoplastic polyester	TPES	CPE	Cellulose propionate	
Thermoplastic polyester:		CPP	Chlorinated polyethylene	
Copolyester [poly(aryl terephthalate)]	ARP	CPVC	Impact copolymer polypropylene	
Polyarylate [poly(aryl terephthalate)]—liquid crystal polymer	PAT	CS	Chlorinated poly(vinyl chloride)	
Thermoplastic polyurethane	TPU	CSF	Casein	
Thermoplastic polyurethane, reinforced	RTPU	CTA	Caseine-formaldehyde resin	
Thermoplastic starch	TPS	CTFE	Cellulose triacetate	
Thermoset polyurethane	TSPU	DAC	Chlorotrifluoroethylene	
Triallyl cyanurate	TAC	DAF	Diallyl chlorendate (diallyl ester of 1,4,5,6,7,7-hexachlorobicyclo- (2,2,1)-5-heptene-2,3-dicarboxylic acid)	
Trichlorethyl phosphate	TCEF	DAIP	Diallyl fumarate	
Tricresyl phosphate (or tritoyl phosphate)	TCF	DAM	Diallyl isophthalate	
Triheptyl trimellitate	THTM	DAP	Diallyl maleate	
Triisooctyl trimellitate	TIOTM	DBP	Diallyl phthalate (diallyl orthophthalate)	
Trioctyl phosphate	TOF	DBS	Dibutyl phthalate	
Trioctyl trimellitate (tri-2-ethylhexyl trimellitate)	TOTM	DCHP	Dibutyl sebacate	
Triphenyl phosphate	TPP	DCP	Dicyclohexyl phthalate	
Trixylyl phosphate	TXF	DDP	Dicapryl phthalate	
Ultra-high molecular weight polyethylene	UHMWPE	DEP	Didecyl phthalate	
Unsaturated polyester	UP	DHP	Diethyl phthalate	
Urea-formaldehyde resin	UF	DHXP	Diheptyl phthalate	
Vinyl chloride-ethylene resin	VCE	DIBP	Dihexyl phthalate	
Vinyl chloride-ethylene-methyl acrylate resin	VCMA	DIDA	Diisobutyl phthalate	
Vinyl chloride-ethylene-vinyl acetate resin	VCEVAC	DIDP	Diisodecyl adipate	
Vinyl chloride-methyl acrylate resin	VCMA	DIHP	Diisodecyl phthalate	
Vinyl chloride-methyl methacrylate resin	VCMAA	DIHXP	Diisoheptyl phthalate	
Vinyl chloride-octyl acrylate resin	VCOA	DINA	Diisohexyl phthalate	
Vinyl chloride-vinyl acetate resin	VCVAC		Diisononyl adipate	
Vinyl chloride-vinylidene chloride resin	VCVDC			
Vinylidene fluoride	VDF			

Abbreviated Term	Term	Abbreviated Term	Term
DINP	Diisononyl phthalate	PA10	Polyamide 10
DIOA	Diisooctyl adipate	PA1010	Polyamide 1010
DIOP	Diisooctyl phthalate	PA	Nylon (see also polyamide)
DIPP	Diisopentyl phthalate	PA11	Polyamide 11
DITDP	Diisotridecyl phthalate	PA12	Polyamide 12
DNOP	Di-n-octyl phthalate	PA1212	Polyamide 1212
DNP	Dinonyl phthalate	PA46	Polyamide 46
DOA	Diethyl adipate (di-2-ethylhexyl adipate)	PA410	Polyamide 410
DOIP	Diethyl isophthalate (di-2-ethylhexyl isophthalate)	PA6	Polyamide 6
DOP	Diethyl phthalate (di-2-ethylhexyl phthalate)	PA610	Polyamide 610
DOS	Diethyl sebacate (di-2-ethylhexyl sebacate)	PA612	Polyamide 612
DOTP	Diethyl terephthalate (di-2-ethylhexyl terephthalate)	PA66	Polyamide 66
DOZ	Diethyl azelate (di-2-ethylhexyl azelate)	PA69	Polyamide 69
DPCF	Diphenyl cresyl phosphate	PA6I	Polyamide 6I
DPOF	Diphenyl 2-ethylhexyl phosphate	PA6T	Polyamide 6T
DPOF	Diphenyl octyl phosphate	PA+	Polyamide (amorphous) blend
DUP	Diundecyl phthalate	PA+EMA	Polyamide plastics+ethylene-methacrylic acid (ionomer)
EA	Ethylene acrylate	PA+PE	Polyamide+polyethylene
EC	Ethyl cellulose	PA+PPE	Polyamide+poly(phenylene ether)
E-CTFE	Ethylene-chlorotrifluoroethylene copolymer	PA+RBR	Polyamide+rubber
EEA	Ethylene-ethyl acrylate plastics	PA+SAN	Polyamide+styrene-acrylonitrile
ELO	Epoxidized linseed oil	PAA	Poly(acrylic acid)
EMA	Ethylene-methacrylic acid plastics	PADC	Poly(allyl diglycol carbonate)
EP	Epoxy, epoxide	PAEK	Poly(aryl ether ketone)
EPD	Ethylene-propylene-diene plastics	PAI	Polyamide-imide
EPM	Ethylene-propylene polymer	PAK	Polyester alkyd (or polyacrylate)
ESO	Epoxidized soya bean oil	PAN	Polyacrylonitrile
ETFE	Ethylene-tetrafluoroethylene copolymer	PAR	Polyarylate
EVA	Ethylene-vinyl acetate plastics	PARA	Polyaryl amide
EVOH	Ethylene-vinyl alcohol copolymer	PASU	Polyarylsulfone
FCEA	Thermoplastic elastomer, fully crosslinked elastomer alloy	PAT	Polyester, thermoplastic; polyarylate [poly(aryl terephthalate)]
FEP	Perfluoro(ethylene-propylene) copolymer	PAUR	Poly(ester urethane)
FF	Furan-formaldehyde resin	PB	Polybutene-1
GP	General purpose	PBA	Poly(butyl acrylate)
GPPS	General purpose polystyrene	PBAS	Poly(butylene adipate-co-succinate)
HCTPV	Thermoplastic elastomer, highly crosslinked thermoplastic vulcanizate	PBAN	Polybutadiene-acrylonitrile
HDPE	High-density polyethylene plastics	PBAT	Poly(butylene adipate-co-terephthalate)
HIPS	High impact-resistant polystyrene	PBS	Polybutadiene-styrene
HNUA	Heptyl nonyl undecyl adipate	PBS	Poly(butylene succinate)
HNUP	Heptyl nonyl undecyl phthalate	PBT	Poly(butylene terephthalate)
HPP	Homopolymer polypropylene	PBT+PET ⁶	Poly(butylene terephthalate)+poly(ethylene terephthalate)
HXODA	Hexyl octyl decyl adipate	PBT+PPE	Poly(butylene terephthalate)+poly(phenylene ether)
HXODP	Hexyl octyl decyl phthalate	PBT+RBR	Poly(butylene terephthalate)+rubber
IPS	Impact-resistant polystyrene	PC	Polycarbonate
LCP	Liquid crystal polymer	PC+PBT	Polycarbonate+poly(butylene terephthalate)
LDPE	Low density polyethylene plastics	PC+PE	Polycarbonate+polyethylene
LLDPE	Linear low density polyethylene plastics	PC+PET ⁶	Polycarbonate+poly(ethylene terephthalate)
LMDPE	Linear medium density polyethylene plastics	PC+SMA	Polycarbonate+styrene-maleic anhydride
MBS	Methacrylate-butadiene-styrene plastics	PC+TPU	Polycarbonate+thermoplastic polyurethane
MC	Methyl cellulose	PCCE	Poly(cyclohexylenedimethylene cyclohexandicarboxylate), glycol and acid comonomer
MDPE	Medium density polyethylene plastics	PCL	Poly(ε-caprolactone)
MF	Melamine-formaldehyde resin	PCT	Poly(cyclohexylenedimethylene terephthalate)
MFA	Perfluoromethoxy resin	PCTA	Poly(cyclohexylenedimethylene terephthalate), cid comonomer
MMA	Methyl methacrylate	PCTFE	Polychlorotrifluoroethylene
MMABS	Methyl methacrylate-acrylonitrile-butadiene-styrene resin	PCTG	Poly(cyclohexylenedimethylene terephthalate), glycol
MPA	Fluorocarbon perfluoromethoxy	PDAP	Poly(diallyl phthalate)
MPF	Melamine/phenol-formaldehyde resin	PE	Polyethylene
NUA	Nonyl undecyl adipate	PEBA	Thermoplastic elastomer, polyether block amide
NUP	Nonyl undecyl phthalate	PEBA	Poly(ether block amide)
ODA	Octyl decyl adipate	PEEK	Polyetheretherketone
ODP	Octyl decyl phthalate	PEEKK	Polyetheretherketoneketone
ODTM	n-Octyl decyl trimellitate	PEF	Poly(ethylene furanate)
PA	Polyamide (nylon)	PEI	Polyetherimide
		PEK	Polyetherketone
		PEKEKK	Polyetherketoneetherketoneketone
		PEKK	Polyetherketoneketone
		PEN	Poly(ethylene naphthalate)
		PEOX	Poly(ethylene oxide)
		PES	Poly(ether sulfone)
		PET ⁶	Poly(ethylene terephthalate)
		PETA	Poly(ethylene terephthalate) acid comonomer

Abbreviated Term	Term	Abbreviated Term	Term
PET ⁶	Poly(ethylene terephthalate)+poly(methyl methacrylate)	TAC	Triallyl cyanurate
+PMMA		TCEF	Trichloroethyl phosphate
PET ⁶ +PPSU	Poly(ethylene terephthalate)+poly(phenylene sulfone)	TCF	Tricresyl phosphate (or tritolyl phosphate)
PET ⁶ +RBR	Poly(ethylene terephthalate)+rubber	TECEA	Thermoplastic elastomer-chlorinated ethylene alloy
PETG	Poly(ethylene terephthalate) glycol comonomer	TEEE	Thermoplastic elastomer, ether-ester
PEUR	Poly(ether urethane)	TEO	Thermoplastic elastomer, olefinic
PF	Phenol-formaldehyde resin	TES	Thermoplastic elastomer, styrenic
PFA	Perfluoro(alkoxy alkane)	TESS	Thermoplastic elastomer styrenic, saturated
PFF	Phenol-furfural resin	TESU	Thermoplastic elastomer styrenic, unsaturated
PHB	Polyhydroxy butyrate	TFE	Tetrafluoroethylene
PHBV	Polyhydroxy butyrate-polyhydroxy valerate	THTM	Triheptyl trimellitate
PI	Polyimide	TIOTM	Triisooctyl trimellitate
PIB	Polyisobutylene	TOF	Trioctyl phosphate
PIR	Polyisocyanurate	TOPM	Tetraoctyl pyromellitate (tetra-2-ethylhexyl pyromellitate)
PISU	Polyimidesulfone	TOTM	Trioctyl trimellitate (tri-2-ethylhexyl trimellitate)
PK	Polyketone	TPE	Thermoplastic elastomer
PLA	Poly(lactic acid)	TPES	Thermoplastic polyester
PMCA	Poly(methyl- α -chloroacrylate)	TPP	Triphenyl phosphate
PMI	Polymethacrylimide	TPU	Thermoplastic polyurethane
PMMA	Poly(methyl methacrylate)	TPS	Thermoplastic starch
PMMI	Poly(methyl methacrylimide)	TSPU	Thermoset polyurethane
PMP	Poly-4-methylpentene-1	TXF	Trixylyl phosphate
PMS	Poly- α -methylstyrene		
POB	Poly-p-oxybenzoate	UF	Urea-formaldehyde resin
POM	Polyoxymethylene, polyacetal	UHMWPE	Ultra-high molecular weight polyethylene
POM+PTFE	Polyoxymethylene+polytetrafluoroethylene	UP	Unsaturated polyester
POM+RBR	Polyoxymethylene+rubber		
PP	Polypropylene	VCE	Vinyl chloride-ethylene resin
PPA	Polyphtalamide	VCEMA	Vinyl chloride-ethylene-methyl acrylate resin
PPE	Poly(phenylene ether) (or poly(phenylene oxide), a deprecated term)	VCEVAC	Vinyl chloride-ethylene-vinyl acetate resin
PPE+IPS	Poly(phenylene ether)+impact-resistant polystyrene	VCMA	Vinyl chloride-methyl acrylate resin
PPH	Polypheylene	VCMAA	Vinyl chloride-methyl methacrylate resin
PPOX	Poly(propylene oxide)	VCOA	Vinyl chloride-octyl acrylate resin
PPS	Poly(phenylene sulfide)	VCVAC	Vinyl chloride-vinyl acetate resin
PPSU	Poly(phenyl sulfone)	VCVDC	Vinyl chloride-vinylidene chloride resin
PPS+PTFE	Poly(phenylene sulfide)+polytetrafluoroethylene	VDF	Vinylidene fluoride
PS	Polystyrene		
PSU	Polysulfone		
PTA	p-Terephthalic acid		
PTFE	Polytetrafluoroethylene		
PUR	Polyurethane		
PUR+PIR	Polyurethane+polyisocyanate		
PVAC	Poly(vinyl acetate)		
PVOH	Poly(vinyl alcohol)		
PVB	Poly(vinyl butyral)		
PVC	Poly(vinyl chloride)		
PVC+CPE	Poly(vinyl chloride)+chlorinated polyethylene		
PVC+NBR	Poly(vinyl chloride)+nitrile-butadiene rubber		
PVC+PMMA	Poly(vinyl chloride)+poly(methyl methacrylate)		
PVC+PUR	Poly(vinyl chloride) plastics+polyurethane		
PVCA	Poly(vinyl chloride-acetate)		
PVDC	Poly(vinylidene chloride)		
PVDF	Poly(vinylidene fluoride)		
PVF	Poly(vinyl fluoride)		
PVFM	Poly(vinyl formal)		
PVK	Poly(vinyl carbazole)		
PVP	Poly(vinyl pyrrolidone)		
RPP	Random copolymer polypropylene		
RTPU	Thermoplastic polyurethane, reinforced		
S/MA	Styrene-maleic anhydride plastics		
SAN	Styrene-acrylonitrile plastic		
SB	Styrene-butadiene plastics		
SBS	Styrene-butadiene-styrene block copolymer		
SEBS	Styrene-ethylene/butylene-styrene block copolymer		
SEPS	Styrene-ethylene/propylene-styrene block copolymer		
SI	Silicone plastics		
SIS	Styrene-isoprene-styrene block copolymer		
SMA+IPS	Styrene-maleic anhydride+impact-resistant polystyrene		
SMS	Styrene- α -methylstyrene plastic		
SP	Saturated polyester plastic		
SRP	Styrene-rubber plastics		
SS	Single stage		

7. Code Numbers for Identifying Flame Retardant Compounds

7.1 The code numbers are grouped according to the chemical composition of the flame retardant.

7.1.1 Halogenated Compounds:

7.1.1.1 In compounds containing both aliphatic/alicyclic and aromatic groups, the group containing the halogen determines the code to be used.

Code	Compound
10	aliphatic/alicyclic chlorinated compounds
11	aliphatic/alicyclic chlorinated compounds in combination with antimony compounds
12	aromatic chlorinated compounds
13	aromatic chlorinated compounds in combination with antimony compounds
14	aliphatic/alicyclic brominated compounds
15	aliphatic/alicyclic brominated compounds in combination with antimony compounds
16	aromatic brominated compounds (excluding brominated diphenylether and biphenyls)
17	aromatic brominated compounds (excluding brominated diphenylether and biphenyls) in combination with antimony compounds
18	polybrominated diphenylether
19	polybrominated diphenylether in combination with antimony compounds
20	polybrominated biphenyls
21	polybrominated biphenyls in combination with antimony compounds
22 to 24	not allocated
25	aliphatic fluorinated compounds
26 to 29	not allocated

7.2 Nitrogen Compounds:

Code	Compound
30	nitrogen compounds (including but not limited to melamine, melamine cyanurate, urea)
31 to 39	not allocated

7.3 Organic Phosphorus Compounds:

Code	Compound
40	halogen free organic phosphorous compounds
41	chlorinated organic phosphorus compounds
42	brominated organic phosphorus compounds
43 to 49	not allocated

7.4 Inorganic Phosphorus Compounds:

Code	Compound
50	ammonium orthophosphates
51	ammonium polyphosphates
52	red phosphorus
53 to 59	not allocated

7.5 Metallic Oxides, Hydroxides, and Salts:

Code	Compound
60	aluminum hydroxide
61	magnesium hydroxide
62	antimony (III)-oxide
63	alkali antimonate
64	magnesium/calcium carbonate-hydrate
65 to 69	not allocated

7.6 Boron and Zinc Compounds:

Code	Compound
70	inorganic boron compounds (excluding zinc borate)
71	organic boron compounds
72	zinc borate
73	inorganic zinc compounds (excluding zinc borate)
74	not allocated

7.7 Silica Compounds:

Code	Compound
75	inorganic silica compounds
76	organic silica compounds
77 to 79	not allocated

7.8 Miscellaneous Compounds:

Code	Compound
80	graphite
81 to 89	not allocated
90 to 99	not allocated

8. Use of Abbreviated Terms

8.1 When abbreviated terms are used in publications or other written matter, their first occurrence in the text should be enclosed in parentheses and preceded by the written word or words being abbreviated. Subsequent references to such words in the article can then be made using the abbreviated term. For example, if one wishes to use PET⁶ as the acronym for poly(ethylene terephthalate), wording such as the following would be acceptable: “Poly(ethylene terephthalate) (PET⁶) is a crystalline plastic. PET⁶ offers many advantages in such articles as soft drink bottles.”

8.2 Additional information on use of abbreviated terms, symbols and codes for flame retardants is included in Guide **D1972**.

9. Keywords

9.1 abbreviated terms; code numbers; flame retardants; monomers; plastic blends and alloys; plastics; plasticizers; terminology symbols

APPENDIX

(Nonmandatory Information)

X1. A SUGGESTED SYSTEM FOR PREPARING ABBREVIATED TERMS FOR PLASTICS AND RELATED TERMS⁶

NOTE X1.1—The use of the following guide in establishing abbreviated terms for plastics and related terms will promote uniform and systematic standardization.⁷

X1.1 Use upper case letters for the main components in the order in which they occur in the plastics term for which an abbreviated term is being established, for example:

Poly(vinyl chloride) = PVC

X1.2 Use generic terms for family designations, for example:

nylon for polyamide plastics

X1.3 Use figures and letters to distinguish among plastics prepared from various condensation units in a homologous series, for example:

Poly(hexamethylene sebacamide) = PA 610 where, with aliphatic components, the first number(s) refers to the number of

carbon atoms in the diamine and the second number(s) refers to the number of carbon atoms in the diacid. It is the convention not to use any separator, such as a comma, dash, or virgule (solidus,/), between the numbers. In these systems there is no confusion when the separator is not used. With alicyclic or aromatic diamines or diacids, a letter acronym is usually used. For example:

meta – phenylene diamine = MPD

terephthalic acid = T

isophthalic acid = I

X1.4 The components in copolymers are separated by hyphens “-” in the term, but usually no separation is required in the abbreviated term. In cases where use of the hyphen may cause confusion, it is acceptable to use a virgule, “/”, as the separator. The virgule also is correctly termed a solidus and often, incorrectly, referred to as a “slash” or “diagonal.”

X1.5 The components in blends of polymers are separated by a plus sign, “+”, in both the term and the abbreviated term.

⁷ Based in part on Proposals under Consideration by the Division of Plastics and High Polymers, IUPAC.

X1.6 A more elaborate system for developing abbreviated terms for plastics and related materials has been standardized by ISO in ISO 1043.

SUMMARY OF CHANGES

Committee D20 has identified the location of selected changes to this standard since the last issue (D1600 - 13) that may impact the use of this standard. (February 1, 2014)

(1) Revised subsections 2.2, 4.1, 4.2, 4.4, Section 6, and Note 2.

Committee D20 has identified the location of selected changes to this standard since the last issue (D1600 - 08) that may impact the use of this standard. (April 15, 2013)

(1) Added new abbreviation for poly(lactic acid) to 4.1.

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