

Designation: D1600 - 08

# StandardTerminology for Abbreviated Terms Relating to Plastics<sup>1</sup>

This standard is issued under the fixed designation D1600; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon  $(\varepsilon)$  indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the 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.<sup>2</sup>
- 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

- 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 3 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:<sup>3</sup>

D883 Terminology Relating to Plastics

D1418 Practice | (for Rubber | and Rubber (Latices—Nomenclature

D1972 Practice for Generic Marking of Plastic Products

2.2 ISO Standards:

ISO 472:1988 Plastics—Vocabulary<sup>4</sup>

ISO 1043-1:2001 Plastics—Symbols—Part 1: Basic Polymers and Their Special Characteristics<sup>4</sup>

ISO 1043-2:2000 Plastics—Symbols—Part 2: Fillers and Reinforcing Materials<sup>4</sup>

ISO 1043-3:1996 Plastics—Symbols—Part 3: Plasticizers<sup>4</sup> ISO/DIS 1043-4:1998 Plastics—Symbols and Abbreviated Terms—Part 4: Flame Retardants<sup>4</sup>

ISO 11469:2000 Plastics—Generic Identification and Marking of Plastics Products<sup>4</sup>

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.

<sup>&</sup>lt;sup>1</sup> 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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 $<sup>^2</sup>$  "Report on Nomenclature in the Field of Macromolecules,"  $\it Journal$  of Polymer Science, Vol VIII, 1952, pp. 257–277.

<sup>&</sup>lt;sup>3</sup> 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.

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



Term

Low density polyethylene plastics

Melamine-formaldehyde resin

Nylon (see also polyamide)

Perfluoro(alkoxy alkane)

Perfluoromethoxy resin

Phenol-furfural resin

Poly(acrylic acid)

Phenol-formaldehyde resin

Poly(allyl diglycol carbonate)

Methyl cellulose

resin

Medium density polyethylene plastics

Melamine/phenol-formaldehyde resin

Methacrylate-butadiene-styrene plastics

Perfluoro(ethylene-propylene) copolymer

Methyl methacrylate-acrylonitrile-butadiene-styrene

Abbreviated Term

LDPE

MDPE

MF

MPF

MBS

**MMABS** 

МС

PA

PFA

FEP

MFA

PF

PFF

PAA

PAE

**PADC** 

### 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:<sup>5</sup>

	4.1 Plastics and Resins:		Poly(aryl ether ketone)	PAEK
	Т	A le le considerate el	Poly(butyl acrylate)	PBA
	Term	Abbreviated Term	Poly(butylene terephthalate)	PBT
	A d id-id (l d di d di		Poly(cyclohexylenedimethylene cyclohexandicar-	PCCE
	Acrylonitrile/butadiene plastics	ABA	boxylate), glycoland acid comonomer	FUUL
	Acrylonitrile-butadiene-acrylate plastics	ABA		PCT
	Acrylonitrile-butadiene-styrene plastics	ABS	Poly(cyclohexylenedimethylene terephthalate)	
	Acrylonitrile-chlorinated polyethylene-styrene plastics	ACPES	Poly(cyclohexylenedimethylene terephthalate),	PCTA
	Acrylonitrile-ethylene-styrene plastics	AES	acid comonomer	DOTO
	Acrylonitrile-methyl acrylate-acrylonitrile-butadiene	AMAB	Poly(cyclohexylenedimethylene terephthalate), glycol	PCTG
	rubber		Poly(diallyl phthalate)	PDAP
	Acrylonitrile-methyl methacrylate plastics	AMMA	Poly(ester urethane)	PAUR
	Acrylonitrile-styrene-acrylate plastics	ASA	Poly(ether block amide)	PEBA
	Acrylonitrile/ethylene-propylene-diene/styrene	AEPDMS	Poly(ether sulfone)	PESU
	Aromatic polyester	ARP	Poly(ether urethane)	PEUR
			Poly(ethylene oxide)	PEOX
	Carboxymethyl cellulose	CMC	Poly(ethylene terephthalate)	PET <sup>5</sup>
	Casein	(CS   2   1   2   1	Poly(ethylene terephthalate) glycol comonomer	PETG
	Caseine-formaldehyde resin	CSF	Poly(methyl methacrylate)	PMMA
	Cellulose acetate	CA	Poly(methyl methacrylimide)	PMMI
	Cellulose acetate-butyrate	CAB	Poly(methyl-α-chloroacrylate)	PMCA
	Cellulose acetate propionate	CAP	Poly(phenyl sulfone)	PPSU
	Cellulose formaldehyde	CEF	Poly(phenylene ether) (or Poly(phenylene oxide),	PPE
	Cellulose nitrate	CN	a deprecated term)	
	Cellulose plastics, general	CEASTM D1600-	Poly(phenylene sulfide)	PPS
	Cellulose propionate	CP	Poly(phenylene sulfone)	PPSU
	Cellulose triacetate s iteh ai/catalog/standards/	CTA5dd588ed-1d	Poly(propylene oxide) 38cf()217d3/astm-d16(	PPOX
	Chlorinated poly(vinyl chloride)	CPVC	Poly(vinyl acetate)	PVAC
	Chlorinated polyethylene	CPE	Poly(vinyl alcohol)	PVOH
	Cresol-formaldehyde resin	CF	Poly(vinyl butyral)	PVB
	•		Poly(vinyl carbazole)	PVK
	Epoxy, epoxide	EP	Poly(vinyl chloride)	PVC
	Ethyl cellulose	EC	Poly(vinyl chloride-acetate)	PVCA
	Ethylene-chlorotrifluoroethylene copolymer	E-CTFE	Poly(vinyl fluoride)	PVF
	Ethylene-ethyl acrylate plastics	EEA	Poly(vinyl formal)	PVFM
	Ethylene-methacrylic acid plastics	EMA	Poly(vinyl pyrrolidone)	PVP
	Ethylene-propylene polymer	EPM	Poly(vinylidene chloride)	PVDC
	Ethylene-propylene-diene plastics	EPD	Poly(vinylidene fluoride)	PVDF
	Ethylene-tetrafluoroethylene copolymer	ETFE	$Poly(\varepsilon$ -caprolactone)	PCL
	Ethylene-vinyl acetate plastics	EVA	Poly-4-methylpentene-1	PMP
	Ethylene-vinyl alcohol copolymer	EVOH	Poly-α-methylstyrene	PMS
			Poly-p-oxybenzoate	POB
	Fluorocarbon perfluoromethoxy	MPA	Polyacrylonitrile	PAN
	Furan formaldehyde resin	FF	Polyamide (nylon)	PA
	•		Polyamide 11	PA11
	High density polyethylene plastics	HDPE	Polyamide 12	PA12
	High impact-resistant polystyrene	HIPS	Polyamide 1212	PA1212
	5 P		Polyamide 46	PA46
	Impact resistant polystyrene	IPS	Polyamide 6	PA6
	b Seresan kendenk	-	Polyamide 610	PA610
	Linear low density polyethylene plastics	LLDPE	Polyamide 612	PA612
	Linear medium density polyethylene plastics	LMDPE	Polyamide 66	PA66
	Liquid crystal polymer	LCP	Polyamide 69	PA69
	angula organia polymor		Polyamide-imide	PAI
			Polyarylate	PAR
_		_	Polyaryl amide	PARA
	<sup>5</sup> To prevent any confusion with or misuse of the registered	l trademark, PET®	Polyarylether	PΔF

 $<sup>^5\,\</sup>text{To}$  prevent any confusion with or misuse of the registered trademark, PET® Milk, the guidelines of 8.1 shall be followed.

Polyarylether



Term	Abbreviated	4.2 Blends and Alloys of Plastics:	
	Term	Term	Abbreviated
Polyarylsulfone	PASU		Term
Polybutadiene-acrylonitrile	PBAN PBS	Acrylonitrile-butadiene-acrylate plastics + poly(methyl	ABA+PMMA
Polybutadiene-styrene Polybutene-1	PB	methacrylate)	
Polycarbonate	PC	Acrylonitrile-butadiene-acrylate plastics+poly(vinyl	ABA+PVC
Polychlorotrifluoroethylene	PCTFE	chloride)	484 80
Polyester alkyd (or polyacrylate)	PAK	Acrylonitrile-butadiene-acrylate plastics+polycarbonate	ABA+PC ABS+PVC
Polyetheretherketone	PEEK	Acrylonitrile-butadiene-styrene plastics+poly(vinyl chloride)	ADS+FVC
Polyetheretherketoneketone	PEEKK	Acrylonitrile-butadiene-styrene plastics+polyphenylene	ABS+PPSU
Polyetherketonetherketoneketone	PEKEKK	sulfone	
Polyetherketoneketone	PEKK	Acrylonitrile-butadiene-styrene	ABS+PTFE
Polyetherimide Polyetherketone	PEI PEK	plastics+polytetrafluoroethylene	
Polyethylene	PE	Acrylonitrile-butadiene-styrene plastics+styrene maleic	ABS+SMA
Poly(ethylene naphthalate)	PEN	anhydride	ADO TOU
Polyhydroxy butyrate	PHB	Acrylonitrile-butadiene-styrene plastics+thermoplastic polyurethane	ABS+TPU
Polyimide	PI	Acrylonitrile-butadiene-styrene plastics+polyamide	ABS+PA
Polyimidesulfone	PISU	Acrylonitrile-butadiene-styrene plastics+polycarbonate	ABS+PC
Polyisobutylene	PIB	Acrylonitrile-styrene-acrylate plastics+poly(methyl	ASA+PMMA
Polyisocyanurate	PIR PK	methacrylate)	
Polyketone Polymethacrylimide	PMI	Acrylonitrile-styrene-acrylate plastics+polycarbonate	ASA+PC
Polyoxymethylene, polyacetal	POM		
Polyphthalamide	PPA	Fully crosslinked elastomeric alloy	FCEA
Polypropylene	PP	Poly(butylene terephthalate)+poly(ethylene	PBT+PET <sup>5</sup>
Polystyrene	PS	terephthalate)	IDITILI
Polysulfone	PSU	to opinital ato,	Abbreviated
Polytetrafluoroethylene	PTFE	Poly(butylene terephthalate)+rubber	PBT+RBR
Polyurethane	PUR	Poly(ethylene naphthalate)	PEN
Caturated polyoptar plantic	SP	Poly(ethylene terephthalate)+poly(methyl	PET <sup>5</sup> +PMMA
Saturated polyester plastic Silicone plastics	SI	methacrylate)	
Styrene-α-methylstyrene plastic	SMS	Poly(ethylene terephthalate)+poly(phenylene sulfone)	PET <sup>5</sup> +PPSU PET <sup>5</sup> +RBR
Styrene-acrylonitrile plastic	SAN	Poly(ethylene terephthalate)+rubber Poly(phenylene ether)+impact resistant polystyrene	PPE+IPS
Styrene-butadiene plastic	SB	Poly(phenylene sulfide)+polytetrafluoroethylene	PPS+PTFE
Styrene-butadiene-styrene block copolymer	SBS	Poly(vinyl chloride)+chlorinated polyethylene	PVC+CPE
Styrene-ethylene/butylene-styrene block copolymer	SEBS	Poly(vinyl chloride)+nitrile-butadiene rubber	PVC+NBR
Styrene-ethylene/propylene-styrene block copolymer	SEPS	Poly(vinyl chloride)+poly(methyl methacrylate)	PVC+PMMA
Styrene-isoprene-styrene block copolymer Styrene-maleic anhydride plastics	SIS CITY OF THE SIM OF	Poly(vinyl chloride) plastics+polyurethane	PVC+PUR
Styrene-rubber plastics	SRP	Polyamide (amorphous) blend	PA +
otyrono rabbor pladilod	OT II	Polyamide plastics+ethylene-methacrylic acid	PA+EMA
Thermoplastic elastomer	TPE CTM D1600	(ionomer) Polyamide+poly(phenylene ether)	PA+PPE
Thermoplastic elastomer, ether-ester	TEEE TIVI DIOUU.	Polyamide+polyethylene	PA+PE
Thermoplastic elastomer, fully crosslinked elastomer	FCEA dd588ed-1d	Polyamide+rubber 38cf0217d3/astm-d160	PA+RBR
alloy		Polyamide+styrene-acrylonitrile plastics	PA+SAN
Thermoplastic elastomer, highly crosslinked	HCTPV	Polycarbonate+poly(butylene terephthalate)	PC+PBT
thermoplastic vulcanizate Thermoplastic elastomer, olefinic	TEO	Polycarbonate+poly(ethylene terephthalate)	PC+PET <sup>5</sup>
Thermoplastic elastomer, polyether block amide	PEBA	Polycarbonate+polyethylene	PC+PE
Thermoplastic elastomer, styrenic	TES	Polycarbonate+styrene-maleic anhydride	PC+SMA
Thermoplastic elastomer styrenic, saturated	TESS	Polycarbonate+thermoplastic polyurethane Polyoxymethylene+polytetrafluoroethylene	PC+TPU POM+PTFE
Thermoplastic elastomer styrenic, unsaturated	TESU	Polyoxymethylene+rubber	POM+RBR
Thermoplastic polyester	TPES	Polyurethane+polyisocyanate	PUR+PIR
Thermoplastic polyester:	ADD	Styrene-maleic anhydride plastics+impact resistant	SMA+IPS
Copolyester [poly(aryl terephthalate)]	ARP	polystyrene	
Polyarylate [poly(aryl terephthalate)]—liquid crystal	PAT	Thermoplastic elastomer-chlorinated ethylene alloy	TECEA
polymer		4.3 Plastic and Resin Additives:	
Thermoplastic polyurethane	TPU	4.5 Flastic and Resin Additives.	
Thermoplastic polyurethane, reinforced	RTPU	Term	Abbreviated
Thermoset polyurethane	TSPU		Term
		Alkylsulfonic acid ester	ASE
Ultra-high molecular weight polyethylene	UHMWPE	Panzul butul phthalata	BBP
Unsaturated polyester	UP	Benzyl butyl phthalate Benzyl octyl adipate (benzyl 2-ethylhexyl adipate)	BOA
Urea-formaldehyde resin	UF	Benzyl octyl adipate (benzyl 2-ethylhexyl adipate)  Benzyl octyl phthalate (benzyl 2-ethylhexyl phthalate)	BOP
Vinyl chloride-ethylene resin	VCE	,	-
Vinyl chloride-ethylene-methyl acrylate resin	VCEMA	Di-n-octyl phthalate	DNOP
Vinyl chloride-ethylene-vinyl acetate resin	VCEVAC	Dibutylphthalate	DBP
Vinyl chloride-methyl acrylate resin	VCMA	Dibutyl sebacate	DBS
Vinyl chloride-methyl methacrylate resin	VCMMA	Dicapryl phthalate	DCP
Vinyl chloride-octyl acrylate resin	VCOA	Dicylohexyl phthalate	DCHP DDP
Vinyl chloride-vinyl acetate resin	VCVAC	Didecyl phthalate Diethyl phthalate	DEP
Vinyl chloride-vinylidene chloride resin Vinylidene fluoride	VCVDC VDF	Diheptyl phthalate	DHP
Vingilacine nacinae	· D1	1 <b>7</b> F · · · · · · · · · ·	



Term	Abbreviated Term	Note 3—When listing one or more components, the should be in decreasing amount by mass. There are situ	
Dihexyl phthalate		where long standing usage indicates that this recommend	
Diisobutyl phthalate			iation should not
Diisodecyl adipate	DIDA	be followed. An example is ETFE.	
Diisodecyl phthalate	DIDB		
Diisoheptyl phthalate	DIHP	5. Full List by Term and Abbreviated Term	
Diisohexyl phthalate	DIHXP	Term	Abbreviated
Diisononyl adipate	DINA	Teilli	Term
Diisononyl phthalate	DINP	Acrylonitrile-butadiene-acrylate plastics+poly(methyl	ABA+PMMA
Diisooctyl adipate	DIOA	methacrylate)	ADATI WIWA
Diisooctyl phthalate	DIOP	Acrylonitrile-butadiene-acrylate plastics+poly(vinyl	ABA+PVC
Diisopentyl phthalate	DIPP	chloride)	
Diisotridecyl phthalate	DITDP	Acrylonitrile-butadiene-acrylate plastics+polycarbonate	ABA+PC
Dimethyl phthalate	DMP	Acrylonitrile-butadiene-acrylate plastics	ABA
Dinonyl phthalate	DNP	Acrylonitrile-butadiene-styrene plastics+poly(vinyl	ABS+PVC
Dioctyl adipate	DOA	chloride)	
Dioctyl azelate	DOZ	Acrylonitrile-butadiene-styrene plastics+polyphenylene	ABS+PPSU
Dioctyl isophthalate (di-2-ethylhexyl isophthalate)	DOIP	sulfone	
Dioctyl phthalate	DOP	Acrylonitrile-butadiene-styrene plastics+polytetrafluoro-	ABS+PTFE
Dioctyl sebacate	DOS	ethylene	
Dioctyl terephthalate (di-2-ethylhexyl terephthalate)	DOTP	Acrylonitrile-butadiene-styrene plastics+styrene maleic	ABS+SMA
Diphenyl octyl phosphate	DPOF	anhydride	
Diphenyl cresyl phosphate	DPCF	Acrylonitrile-butadiene-styrene	ABS+TPU
Diphenyl 2-ethylhexyl phosphate	DPOF	plastics+thermoplastic polyurethane	
Diundecyl phthalate	DUP	Acrylonitrile/butadiene plastics	AB
Facilities di Bassad ell	FLO.	Acrylonitrile-butadiene-styrene plastics+polyamide	ABS+PA
Epoxidized linseed oil	ELO	Acrylonitrile-butadiene-styrene plastics+polycarbonate	ABS+PC
Epoxidized soya bean oil	ESO	Acrylonitrile-chlorinated polyethylene-styrene plastics	ACPES
Heptyl nonyl undecyl adipate	HNUA	Acrylonitrile-ethylene-styrene plastics	AES
Heptyl nonyl undecyl phthalate	HNUP	Acrylonitrile-methyl acrylate-acrylonitrile-butadiene	AMAB
Hexyl octyl decyl adipate	HXODA	rubber	A B 4 B 4 A
Hexyl octyl decyl phthalate	HXODP	Acrylonitrile-methyl methacrylate plastics	AMMA ASA+PMMA
Hexyr octyr decyr primaiate	andian	Acrylonitrile-styrene-acrylate plastics+poly(methyl methacrylate)	ASA+FIVIIVIA
n-Octyl decyl trimellitate	ODTM	Acrylonitrile-styrene-acrylate plastics+poly(vinyl	ASA+PVC
Nonyl undocyl odinata	NUA	chloride)	AOATI VO
Nonyl undecyl adipate  Nonyl undecyl phthalate	NUP	Acrylonitrile-styrene-acrylate plastics	ASA
(1111)	Stanua	Acrylonitrile-styrene-acrylate plastics+polycarbonate	ASA+PC
Octyl decyl adipate	ODA	Acrylonitrile/ethylene-propylene-diene/styrene plastics	AEPDMS
Octyl decyl phthalate	ODP	Alkylsulfonic acid ester	ASE
Duc		Allyl diglycol carbonate	ADC
Tetraoctyl pyromellitate (tetra-2-ethylhexyl	TOPM	Aromatic polyester	ARP
pyromellitate)			
Trichloroethyl phosphate	TCEFOTA D1600	Benzyl butyl phthalate	BBP
Tricresyl phosphate (or tritolyl phosphate)	TCF	Benzyl octyl adipate (benzyl 2-ethylhexyl adipate)	BOA
Triheptyl trimellitateds iteh ai/catalog/standards	/sTHTMdd588ed-1	Benzyl octyl phthalate (benzyl 2-ethylhexyl phthalate)	BOP
Triisooctyl trimellitate	TIOTM		
Trioctyl phosphate	TOF	Carboxymethyl cellulose	CMC
Trioctyl trimellitate (tri-2-ethylhexyl trimellitate)	TOTM	Casein	CS
Triphenyl phosphate	TPP	Caseine-formaldehyde resin	CSF
Trixylyl phosphate	TXF	Cellulose acetate	CA
4.4 Monomers:		Cellulose acetate-butyrate	CAB
		Cellulose acetate-propionate	CAP
Term	Abbreviated	Cellulose formaldehyde	CEF
All defendance to the second second	Term	Cellulose nitrate	CN
Allyl diglycol carbonate	ADC	Cellulose plastics, general	CE
Oblancial constitution of	CTFE	Cellulose propionate	CP
Chlorotrifluoroethylene	CIFE	Cellulose triacetate	CTA CPVC
Diallyl chlorendate (diallyl ester of 1,4,5,6,7,7-hexa	DAC	Chlorinated poly(vinyl chloride)	CPE
chlorobicyclo-(2,2,1)-5-heptene-2,3	DAC	Chlorinated polyethylene Chlorotrifluoroethylene	CTFE
-dicarboxylic acid)		Cresol-formaldehyde resin	CF
Diallyl fumarate	DAF	Oresor formalderlyde resim	Oi
Diallyl isophthalate	DAIP	Di-n-octyl phthalate	DNOP
Diallyl maleate	DAM	Diallyl chlorendate (diallyl ester of 1,4,5,6,7,7-	DAC
Diallyl phthalate (diallyl orthophthalate)	DAP	hexachloro-	27.0
V 1 V 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		bicyclo-(2,2,1)-5-heptene-2,3-	
Methyl methacrylate	MMA	dicarboxylic acid)	
•		Diallyl fumarate	DAF
Tetrafluoroethylene	TFE	Diallyl isophthalate	DAIP
Triallyl cyanurate	TAC	Diallyl maleate	DAM
4.5 Miscellaneous Plastics Terms:		Diallyl phthalate (diallyl orthophthalate)	DAP
T.J MISCELLANEOUS I LUSIUS IEIMS.		Dibutyl phthalate	DBP
Term	Abbreviated	Dibutyl sebacate	DBS
	Term	Dicapryl phthalate	DCP
General purpose	GP	Dicyclohexyl phthalate	DCHP
Single stage	SS	Didecyl phthalate	DDP



Term	Abbreviated	Term	Abbreviated
	Term		Term
Diethyl phthalate	DEP		
Diheptyl phthalate	DHP	Perfluoro(alkoxy alkane)	PFA
Dihexyl phthalate	DHXP	Perfluoro(ethylene-propylene) copolymer	FEP
Diisobutyl phthalate	DIBP	Perfluoromethoxy resin	MFA
Diisodecyl adipate	DIDA DIDP	Phenol-formaldehyde resin	PF PFF
Diisodecyl phthalate	DIHP	Phenol-furfural resin	PAA
Diisoheptyl phthalate Diisohexyl phthalate	DIHXP	Poly(acrylic acid) Poly(allyl diglycol carbonate)	PADC
Diisononyl adipate	DINA	Poly(aryl ether ketone)	PAEK
Diisononyl phthalate	DINP	Poly(butyl acrylate)	PBA
Diisooctyl adipate	DIOA	Poly(butylene terephthalate)	PBT
Diisooctyl phthalate	DIOP	Poly(butylene terephthalate)+poly(ethylene	PBT+PET <sup>5</sup>
Diisopentyl phthalate	DIPP	terephthalate)	
Diisotridecyl phthalate	DITDP	Poly(butylene terephthalate)+poly(phenylene ether)	PBT+PPE
Dimethyl phthalate	DMP	Poly(butylene terephthalate)+rubber	PBT+RBR
Dinonyl phthalate	DNP	Poly(cyclohexylenedimethylene	PCCE
Dioctyl adipate	DOA	cyclohexandicarboxylate), glycol and acid	
Dioctyl azelate	DOZ	comonomer	
Dioctyl isophthalate (di-2-ethylhexyl isophthalate)	DOIP	Poly(cyclohexylenedimethylene terephthalate)	PCT
Dioctyl phthalate	DOP	Poly(cyclohexylenedimethylene terephthalate), acid	PCTA
Dioctyl sebacate	DOS	comonomer	
Dioctyl terephthalate (di-2-ethylhexyl terephthalate)	DOTP	Poly(cyclohexylenedimethylene terephthalate), glycol	PCTG
Diphenyl 2-ethylhexyl phosphate	DPOF	Poly(diallyl phthalate)	PDAP
Diphenyl cresyl phosphate	DPCF	Poly(ester urethane)	PAUR
Diphenyl octyl phosphate	DPOF	Poly(ether block amide)	PEBA
Diundecyl phthalate	DUP	Poly(ether sulfone)	PESU
		Poly(ether urethane)	PEUR
Epoxidized linseed oil	ELO	Poly(ethylene naphthalate)	PEN
Epoxidized soya bean oil	ESO	Poly(ethylene oxide)	PEOX
Epoxy, epoxide	EP	Poly(ethylene terephthalate)	PET <sup>5</sup>
Ethyl cellulose	EC	Poly(ethylene terephthalate)+poly(methyl	PET <sup>5</sup> +PMMA
Ethylene-chlorotrifluoroethylene copolymer	E-CTFE	methacrylate) Poly(ethylene terephthalate)+poly(phenylene sulfone)	PET <sup>5</sup> +PPSU
Ethylene-ethyl acrylate plastics	EEA SUMMENTAL SUMENTAL SUMMENTAL SUMENTAL SUMMENTAL SUMMENTAL SUMMENTAL SUMMENTAL SUMMENTAL SUME	Poly(ethylerie terephinalate)+poly(phenylerie sullone)	PET <sup>5</sup> +RBR
Ethylene-methacrylic acid plastics	EPM	Poly(ethylene terephthalate), glycol comonomer	PETG
Ethylene-propylene polymer Ethylene-propylene-diene plastics	EPD 9 11 9 1	Poly(methyl methacrylate)	PMMA
Ethylene-tetrafluoroethylene copolymer	ETFE	Poly(methyl methacrylimide)	PMMI
Ethylene-vinyl acetate plastics	EVA	Poly(methyl-α-chloroacrylate)	PMCA
Ethlene-vinyl alcohol copolymer	EVOH AND P	Poly(phenyl sulfone)	PPSU
Etimene-virryi alconor coporymer		Poly(phenylene ether) (or poly(phenylene oxide),	PPE
Fluorocarbon perfluoromethoxy	MPA	a deprecated term)	
Fully crosslinked elastomeric alloy	FCEA	Poly(phenylene ether)+impact resistant polystyrene	PPE+IPS
Furan-formaldehyde resin	FFACTM D1600	Poly(phenylene sulfide)	PPS
,,		Poly(phenylene sulfide)+polytetrafluoroethylene	PPS+PTFE
General purpose and sitch ai/catalog/standards/	sGP/5dd588ed-1d	(Poly(phenylene sulfone) 28 (1) 217 d3/astm-d16(	PPSU
mps./balkaras.homareaanogsamaaras/		Poly(propylene oxide)	PPOX
Heptyl nonyl undecyl adipate	HNUA	Poly(vinyl acetate)	PVAC
Heptyl nonyl undecyl phthalate	HNUP	Poly(vinyl alcohol)	PVOH
Hexyl octyl decyl adipate	HXODA	Poly(vinyl butyral)	PVB
Hexyl octyl decyl phthalate	HXODP	Poly(vinyl carbazole)	PVK
High density polyethylene plastics	HDPE	Poly(vinyl chloride)	PVC
High impact-resistant polystyrene	HIPS	Poly(vinyl chloride)+chlorinated polyethylene	PVC+CPE
		Poly(vinyl chloride)+nitrile-butadiene rubber	PVC+NBR
Impact resistant polystyrene	IPS	Poly(vinyl chloride)+poly(methyl methacrylate)	PVC+PMMA
		Poly(vinyl chloride) plastics+polyurethane	PVC+PUR
Linear low density polyethylene plastics	LLDPE	Poly(vinyl chloride-acetate)	PVCA
Linear medium density polyethylene plastics	LMDPE	Poly(vinyl fluoride)	PVF
Liquid crystal polymer	LCP	Poly(vinyl formal)	PVFM
Low density polyethylene plastics	LDPE	Poly(vinyl pyrrolidone)	PVP
	MDDE	Poly(vinylidene chloride)	PVDC
Medium density polyethylene plastics	MDPE	Poly(vinylidene fluoride) Poly(ε-caprolactone)	PVDF
Melamine-formaldehyde resin	MF	,	PCL
Melamine/phenol-formaldehyde resin	MPF	Poly-4-methyl pentene-1	PMP PMS
Methyl cellulose	MBS MC	Poly-α-methylstyrene Poly-p-oxybenzoate	POB
Methyl cellulose Methyl methacrylate	MMA	Polyacrylonitrile	PAN
Methyl methacrylate-acrylonitrile-butadiene-styrene	MMABS	Polyamide (amorphous) blend	PA+
resin	IVIIVIADO	Polyamide (arriorphous) blend Polyamide (nylon)	PA +
163111		Polyamide (11)	PA11
n-Octyl decyl trimellitate	ODTM	Polyamide 12	PA12
Nonyl undecyl adipate	NUA	Polyamide 1212	PA1212
Nonyl undecyl phthalate	NUP	Polyamide 46	PA46
Nylon (See also <i>polyamide</i> )	PA	Polyamide 6	PA6
, ( ,,	•	Polyamide 610	PA610
Octyl decyl adipate	ODA	Polyamide 612	PA612
Octyl decyl phthalate	ODP	Polyamide 66	PA66



Term	Abbreviated		Term	Abbreviated
Polyamide 69	Term PA69	Thormonlastic old	astomer, highly crosslinked	Term HCTPV
Polyamide 69 Polyamide plastics+ethylene-methacrylic acid	PA+EMA	thermoplastic vul		пстру
(ionomer)	IATLINA			TEO
Polyamide+poly(phenylene ether)	PA+PPE	Thermoplastic elastomer, olefinic Thermoplastic elastomer, polyether block amide		PEBA
Polyamide+polyethylene	PA+PE	Thermoplastic elastomer, styrenic		TES
Polyamide+rubber	PA+RBR		astomer styrenic, saturated	TESS
Polyamide+styrene-acrylonitrile plastics	PA+SAN	Thermoplastic elastomer styrenic, unsaturated		TESU
Polyamide-imide	PAI	Thermoplastic ela	astomer-chlorinated ethylene alloy	TECEA
Polyarylate	PAR	Thermoplastic po		TPES
Polyaryl amide	PARA	Thermoplastic po		
Polyarylether	PAE		[poly(aryl terephthalate)]	ARP
Polyarylsulfone	PASU	, ,	poly(aryl terephthalate)]—liquid	PAT
Polybutadiene-acrylonitrile	PBAN	crystal poly		TDU
Polybutadiene-styrene Polybutene-1	PBS PB	Thermoplastic po	lyurethane, reinforced	TPU RTPU
Polycarbonate	PC	Thermoset polyur		TSPU
Polycarbonate+poly(butylene terephthalate)	PC+PBT	Triallyl cyanurate	Ciriano	TAC
Polycarbonate+poly(ethylene terephthalate)	PC+PC+PET <sup>5</sup>	Trichlorethyl phos	sphate	TCEF
Polycarbonate+polyethylene	PC+PE		ate (or tritolyl phosphate)	TCF
Polycarbonate+styrene-maleic anhydride	PC+SMA	Triheptyl trimellita		THTM
Polycarbonate+thermoplastic polyurethane	PC+TPU	Triisooctyl trimelli		TIOTM
Polychlorotrifluoroethylene	PCTFE	Trioctyl phosphate	e	TOF
Polyester alkyd (or polyacrylate)	PAK	Trioctyl trimellitate	e (tri-2-ethylhexyl trimellitate)	TOTM
Polyester, thermoplastic; polyarylate [poly(aryl	PAT	Triphenyl phosph		TPP
terephthalate)]—liquid crystal polymer		Trixylyl phosphate	е	TXF
Polyetheretherketone	PEEK			
Polyetheretherketoneketone	PEEKK		ılar weight polyethylene	UHMWPE
Polyetherketonetherketoneketone	PEKEKK	Unsaturated poly		UP
Polyetherketoneketone	PEKK	Urea-formaldehyo	de resin	UF
Polyetherizmide	PEI PEK	Vinyl chloride-eth	ulana rasin	VCE
Polyetherketone Polyethylene	PE O 4	,	ylene resin ylene-methyl acrylate resin	VCEMA
Polyhydroxy butyrate	PHB Tan		ylene-vinyl acetate resin	VCEVAC
Polyhydroxy butyrate-polyhydroxy valerate	PHBV			VCMA
Polyimide	PI	Vinyl chloride-methyl acrylate resin Vinyl chloride-methyl methacrylate resin		VCMMA
Polyimidesulfone	PISU	Vinyl chloride-netryl methacrylate resin		VCOA
Polyisobutylene	PIB	Vinyl chloride-viny		VCVAC
Polyisocyanurate	PIR		ylidene chloride resin	VCVDC
Polyketone	PKMant	Vinylidene fluorid		VDF
Polymethacrylimide	PMI			
Polyoxymethylene+polytetrafluoroethylene	POM+PTFE	6. Full List by	Abbreviated Term	
Polyoxymethylene+rubber	POM+RBR	-		
Polyoxymethylene, polyacetal	POMSTM D1600	Abbreviated	Term	
Polyphenylene	PPH 5 1 1500 1 1	Term	O A studied both discussion and the state of	
Polyphthalamideards. iteh.ai/catalog/standards	SPPA5dd588ed-1	d9AB-44b3-b8		00-08
Polypropylene Polystyrene	PS	ABA ABA+PC	Acrylonitrile-butadiene-acrylate plastics Acrylonitrile-butadiene-acrylate+polyca	
Polysulfone	PSU	ABA+PMMA	Acrylonitrile-butadiene-acrylate+poly(m	
Polytetrafluoroethylene	PTFE	ADATI WIWA	methacrylate)	Спу
Polyurethane	PUR	ABA+PVC	Acrylonitrile-butadiene-acrylate+poly(vi	nvl chloride)
Polyurethane+polyisocyanate	PUR+PIR	ABS	Acrylonitrile-butadiene-styrene plastics	
, , , ,		ABS+PA	Acrylonitrile-butadiene-styrene plastics	
Saturated polyester plastic	SP	ABS+PC	Acrylonitrile-butadiene-styrene plastics	+polycarbonate
See TCF	TTP	ABS+PPSU	Acrylonitrile-butadiene-styrene+polyphe	
Silicone plastics	SI	ABS+PTFE	Acrylonitrile-butadiene-styrene+polyteti	
Single stage	SS	ABS+PVC	Acrylonitrile-butadiene-styrene+poly(vir	,
Styrene-α-methylstyrene plastic	SMS	ABS+SMA	Acrylonitrile-butadiene-styrene+styrene	maleic
Styrene-acrylonitrile plastic	SAN	ADC: TDU	anhydride	-14:-
Styrene-butadiene plastics Styrene-butadiene-styrene block copolymer	SB	ABS+TPU	Acrylonitrile-butadiene-styrene+thermo	piastic
Styrene-ethylene/butylene-styrene block copolymer	SBS SEBS	ACPES	polyurethane Acrylonitrile-chlorinated polyethylene-s	tyrono plaetice
Styrene-ethylene/propylene-styrene block copolymer	SEPS	ADC	Allyl diglycol carbonate	tyrene plastics
Styrene-isoprene-styrene block copolymer	SIS	AEPDMS	Acrylonitrile/ethylene-propylene-diene/s	styrene plastics
Styrene-maleic anhydride plastics+impact resistant	SMA+IPS	AES	Acrylonitrile-ethylene-styrene plastics	styrono piaonos
polystyrene	-	AMMA	Acrylonitrile-methyl methacrylate plasti	cs
Styrene-maleic anhydride plastics	S/MA	ARP	Aromatic polyester	
Styrene-rubber plastics	SRP	ARP	Thermoplastic polyester, (polyaryl tere	phthalate)
		ASA	Acrylonitrile-styrene-acrylate plastics	
Tetrafluoroethylene	TFE	ASA+PC	Acrylonitrile-styrene-acrylate plastics+p	•
Tetraoctyl pyromellitate (tetra-2-ethylhexyl	TOPM	ASA+PMMA	Acrylonitrile-styrene-acrylate+poly(metl	nyl
pyromellitate)	TDE	404 51/5	methacrylate)	
Thermoplastic elastomer	TPE	ASA+PVC	Acrylonitrile-styrene-acrylate+poly(viny	i chloride)
Thermoplastic elastomer, ether-ester	TEEE	ASE	Alkylsulfonic acid ester	
Thermoplastic elastomer, fully crosslinked elastomer alloy	FCEA	BBP	Benzyl butyl phthalate	
anoy		<i>3</i> 01	2011291 butyl philialate	