

Specialty Polymers & Services, Inc.

Guide to Polymer/Plastic Abbreviations



Abbreviation	Description	Type	CAS number
ABS	Acrylonitrile-Butadiene-Styrene	Thermoplastic resin	
Acetal	Polyacetal	Thermoplastic resin	
Acrylic	Polyacrylates	Thermoplastic resin	
Acrylonitrile (PAN)	Polyacrylonitrile	Thermoplastic resin	
ACS	acrylonitrile-chlorinated polyethylene styrene terpolymer	Thermoplastic resin	
Allyl	Allyl Resin	Thermoset resin	
AMA	acrylate maleic anhydride terpolymer		
AMMA	acrylonitrile-methyl methacrylate		105-83-9
APO	amorphous polyolefin	Thermoplastic resin	
AS	acrylonitrile styrene copolymer	Thermoplastic resin	
ASA	Acrylate styrene acrylonitrile	Thermoplastic resin	
ATH	aluminium trihydrate	mineral filler	
BAPMA	N,N- Bis(3-aminopropyl)methylamine		
BDMA	Benzyl dimethylamine	tertiary amine catalyst	
BDS	butadiene-styrene block copolymer	Thermoplastic resin	
BF3-MEA	boron trifluoride monoethylamine	Epoxy curing agent	
BGE	Butyl glycidyl ether	Epoxy diluent/modifier	
BMC	bulk moulding compound	Thermoset resin	
BMI	bis maleimide		
BOPP	biaxially oriented polypropylene	Thermoplastic resin	
BR	butadiene rubber		
BTDA	Benzophenone tetracarboxylic dianhydride		
BTEAC	Benzyltriethylammonium chloride	Epoxy curing agent	
BTMAC	Benzyltrimethylammonium chloride	Epoxy curing agent	
CA	Cellulose acetate		
CA	Chlorendric anhydride	Epoxy curing agent	
CAB	cellulose acetate-butyrate		
CAP	cellulose acetate propionate		
CE	cellulose		
CGE	Cresyl glycidyl ether	Epoxy diluent/modifier	
CMC	carboxymethyl cellulose		
CN	cellulose nitrate (celluloid)	Thermoplastic resin	
COC	cycloolefin copolymer	Thermoplastic resin	104-78-9
COP	copolyester thermoplastic elastomer	Thermoplastic resin	
CP	cellulose propionate		
CPCDA	Cyclopentane tetracarboxylic acid dianhydride		111-40-0
CPE	chlorinated polyethylene	Thermoplastic resin	
CPVC	chlorinated polyvinyl chloride		
CSM	chopped strand mat (or) chlorosulphonated polyethylene (rubber)		
CTA	cellulose triacetate		
CTBN	Carboxyl terminated butyl nitrile		
CTFE	chlorotrifluoroethylene	Thermoplastic resin	
DAP	diallyl phthalate (thermoset)	Thermoset resin	
DBP	dibutyl phthalate	Plasticizer	109-55-7
DCO	dehydrated castor oil		
DDSA	dodecyl succinic anhydride	Epoxy curing agent	
DEAEA	2-(Diethylamino)ethylamine	Epoxy curing agent	
DEAPA	3-(Diethylamino)propylamine	Epoxy curing agent	
DETA	Diethylenetriamine	Epoxy curing agent	6864-37-5
DICY	dicyandiamide	Epoxy curing agent	
DMAEP	2-(Dimethylaminoethyl) Phenol		
DMAPA	3-(Dimethylamino)propylamine	Epoxy curing agent	
DMC	dough moulding compound		
DMDC	3,3'- Dimethyl-4,4'- diaminodicyclohexylmethane		
DOP	dioctyl phthalate	Plasticizer	
E/VAC	ethylene/vinyl acetate copolymer	Thermoplastic resin copolymer	
EAA	ethylene acrylic acid copolymer	Thermoplastic resin	
EC	ethyl cellulose		107-15-3
ECTFE	ethylene chlorotrifluoro ethylene copolymer		
EDA	Ethylenediamine		
EMAC	ethylene-methyl acrylate copolymer	Thermoplastic resin copolymer	
EnBA	ethylene n-butyl acetate		
EP	Epoxy	Thermoset resin	
EPDM	ethylene propylene diene monomer rubber		
EPM	ethylene propylene copolymer rubber		
EPR or EPM	ethylene-propylene rubber		
EPS	expanded polystyrene	Thermoplastic resin	
EPS	expandable polystyrene	Thermoplastic resin	
ETFE	ethylene tetrafluoroethylene		
EVA	Ethylene vinyl acetate		

Specialty Polymers & Services, Inc.

Guide to Polymer/Plastic Abbreviations



Abbreviation	Description	Type	CAS number
EVOH	ethylene vinyl alcohol		
EVOH or EVAL	Ethylene vinly alcohol	Thermoplastic resin	
FEP	fluorinated ethylene-propylene		
FRP	fibre reinforced polyester/plastics	composite of resin & reinforcements	
GMT	glass mat thermoplastic	Thermoplastic resin	
GPPS	general purpose polystyrene	Thermoplastic resin	
GRP	glass reinforced plastic	composite of resin & reinforcements	
HDPE (PE-HD)	High density polyethylene	Thermoplastic resin	
HEMA	hydroxyethyl methacrylate polymer		
HHPA	hexahydro pthalate anhydride	Epoxy curing agent	
HIPS	High impact polystyrene	Thermoplastic resin	
HMC	high strength molding compound		
HMWHDPE	high molecular weight high density polyethylene		
IBPA	Iminobispropylamine		
IPN	interpenetrating polymer network		
LCP	Liquid Crystal Polymer	Thermoplastic resin	
LDPE	low density polyethylene	Thermoplastic resin	
LDPE (PE-LD)	Low density polyethylene	Thermoplastic resin	
LLDPE (PE-LLD)	Linear low density polyethylene	Thermoplastic resin	
LPE	linear polyethylene	Thermoplastic resin	101-77-9
MA	maleic anhydride		
MABS	methyl methacrylate/ABS copolymer		7328-91-8
MAPA	3-(Methylamino)propylamine		
MBS	methyl methacrylate butadiene styrene terpolymer		
MDA	Methylene dianiline, 4,4'	Epoxy curing agent	
MDPE	medium density polyethylene	Thermoplastic resin	
MDPE (PE-MD)	Medium density polyethylene	Thermoplastic resin	
MEK	Methyl Ethyl Ketone	solvent	10563-76-5
MF	Melamine formaldehyde	Thermoset resin	
MHHPA	methyl hexahydro phtalic anhydride	Epoxy curing agent	
MIBK	Methyl isobutyl ketone	solvent	
MP	melamine phenolic		13531-52-7
N3	N-3 Amine N-(2-Aminoethyl)-1,3-propylenediamine		
N4	N-4 Amine (N,N'-Bis (3-aminopropyl)ethylenediamine)		
NBR	nitrile rubber = acrylonitrile butadiene rubber		
NGE	neodol glycidyl ether	Epoxy diluent/modifier	
NMA	nadic methyl anhydride	Epoxy curing agent	
NPDA	Neopentanediamine		
NR	natural rubber		
OPP	oriented polypropylene	Thermoplastic resin	
OSA	olefin modified styrene acrylonitrile		
P	phenolic		
PA	Polyamide (nylon)	Thermoplastic resin	
PA 66/610	Polyamide (Nylon) type 66/610 copolymer	Thermoplastic resin	78-90-0
PA11	Polyamide (Nylon) type 11	Thermoplastic resin	
PA12	Polyamide (Nylon) type 12	Thermoplastic resin	
PA46	Polyamide (Nylon) type 46	Thermoplastic resin	
PA6	Polyamide (Nylon) type 6	Thermoplastic resin	
PA610	Polyamide (Nylon) type 610	Thermoplastic resin	
PA66	Polyamide (Nylon) type 66	Thermoplastic resin	
PAA	polaryl amide		
PAA	poly acetic acid		
PAEK	Polyaryletherketone	Thermoplastic resin	
PAI	Polyamide-imide	Thermoplastic resin	
PAK	polyester alkyd		
PAL	polyaniline		
PAN	polyacrylonitrile		
PARA	polyaryl amide		
PAS	polyarylsulfone		
PB	Polybutylene	Thermoplastic resin	
PBAN	polybutadiene acrylonitrile		
PBD	Polybutadiene	Thermoplastic resin	
PBI	polybenzimidazole		
PBN	polybutylene naphthalate		
PBS	polybutadiene styrene		
PBT	Polybutylene terephthalate	Thermoplastic resin	
PC	Polycarbonate	Thermoplastic resin	
PC/ABS	polycarbonate/acrylonitrile butadiene styrene blend	Thermoplastic copolymer	
PCL	polycaprolactone		
PCT	polycyclohexylene terephthallate		

Specialty Polymers & Services, Inc.

Guide to Polymer/Plastic Abbreviations



Abbreviation	Description	Type	CAS number
PCTFE	polymonochlorotrifluoroethylene		
PCT-G	glycol modified polycyclohexyl terephthalate		
PDA	1,2- Propylenediamine		
PDCP	Polydicyclopentadiene	Thermoset resin	
PE	Polyethylene	Thermoplastic resin	
PEBA	polyether block amide	Thermoplastic resin	
PEC	Polyethylenchlorinates	Thermoplastic resin	
PEEK	Polyetheretherketone	Thermoplastic resin	
PEEL	polyester elastomer		
PEI	Polyetherimide	Thermoplastic resin	
PEK	polyetherketone	Thermoplastic resin	
PEKEKK	polyetherketone etherketone ketone	Thermoplastic resin	
PEKK	polyetherketoneketone	Thermoplastic resin	
PEN	polyethylene naphthalene	Thermoplastic resin	3030-47-5
PEO	polyethylene oxide	Thermoplastic resin	
PES	Polyethersulfone	Thermoplastic resin	
PET	polyethylene terephthalate	Thermoplastic resin	
PETG	PET copolymer	Thermoplastic copolymer	
PET-G	glycol modified polyethylene terephthalate	Thermoplastic resin	56-18-8
PETP	polyethylene terephthalate	Thermoplastic resin	
PF	Phenol-formaldehyde Plastic	Thermoset resin	
PFA	perfluoro alkoxy alkane		
PFA	perfluoroalkoxy		
PHB	polyhydroxybutyrate		
PI	Polyimide	Thermoplastic or Thermoset resin	
PI	polyisoprene		
PIB	polyisobutylene		
PIR	polyisocyanurate rigid (foam)	Cured Foam	
PIR	polyisocyanurate		
PK	Polyketone	Thermoplastic resin	
PMA or PA	Pyrometallitic anhydride	Epoxy curing agent	
PMAN	polymethacrylonitrile		
PM-DETA	N,N,N',N',N"- Pentamethyldiethylenetriamine		
PMMA	Polymethyl methacrylate (Acrylic)		
PMP	Polymethylpentene	Thermoplastic resin	
PMS	paramethylstyrene		
PO	polyolefin	Thermoplastic resin	
POM	Polyoxymethylene (Acetal, Polyformaldehyde)		
PP	Polypropylene	Thermoplastic resin	
PPC	Polypropylene copolymer	Thermoplastic resin	
PPC	chlorinated polypropylene		
PPC	polyphthalate carbonate		
PPE	polyphenylene ether		
PPH	Polypropylene homopolymer	Thermoplastic resin	
PPI	polymeric polyisocyanate		
PPO	Polyphenylene Oxide	Thermoplastic resin	
PPOX	polypropylene oxide		
PPS	Polyphenylene Sulfide	Thermoplastic resin	
PPSS	polyphenylene sulphide sulphone	Thermoplastic resin	
PPSU	polyphenylene sulfone		
PPT	polypropylene terephthalate	Thermoplastic resin	
PS	Polystyrene	Thermoplastic resin	
PS-b-PI	polystyrene/polyisoprene block copolymer	Thermoplastic copolymer	
PSO,PSU	polysulfone	Thermoplastic resin	
PSU	Polysulfone	Thermoplastic resin	
PTA	Polyphthalamide	Thermoplastic resin	
PTBGE	para-tertiary butyl phenol glycidyl ether	Epoxy diluent/modifier	
PTFE	Polytetrafluoroethylene	Thermoplastic resin	
PTFE	polytetrafluoroethylene		
PTFE, FEP, PFA, CTFE, ECTFE	Fluoroplastics	Thermoplastic resin	
PTMT	polytetramethylene terephthalate = PBT	Thermoplastic resin	
PU	Polyurethane	Thermoplastic or Thermoset resin	
PU,PUR	polyurethane	Thermoplastic or Thermoset resin	
PVA	polyvinyl acetate	Thermoplastic resin	
PVA	polyvinyl alcohol (sometimes polyvinyl acetate)		
PVAc	polyvinyl acetate	Thermoplastic resin	
PVB	polyvinyl butyral (butyrate)	Thermoplastic resin	
PVB	polyvinyl butyryl	Thermoplastic resin	
PVC	Polyvinylchloride	Thermoplastic resin	
PVCA	polyvinyl chloride acetate		

Specialty Polymers & Services, Inc.

Guide to Polymer/Plastic Abbreviations



Abbreviation	Description	Type	CAS number
PVC-C or PVCC	Chlorinated polyvinyl chloride		
PVC-P	Plasticised polyvinyl chloride		
PVC-U (uPVC)	Unplasticised polyvinyl chloride		
PVDA	polyvinylidene acetate		
PVDC	Polyvinylidene Chloride	Thermoplastic resin	
PVDF	polyvinylidene fluoride	Thermoplastic resin	
PVF	polyvinyl fluoride	Thermoplastic resin	
PVK	polyvinyl carbazole		
PVOH	polyvinyl alcohol		
PVP	polyvinyl pyrrolidone		
SA	Succinic anhydride		111-18-2
SAN	Styrene acrylonitrile copolymer		
SAN	styrene acrylonitrile		
SB	styrene butadiene		
SBR	styrene butadiene rubber		
SBS	styrene-butadiene-styrene (block copolymer)		
SEBS	styrene-ethylene-butadiene-styrene		
SEBS	styrene ethylene butylene styrene block copolymer		
SI	Silicone	Thermoset resin	
SIS	styrene isoprene styrene block copolymer		
SMA	styrene maleic anhydride		
SMC	sheet moulding compound	Thermoset resin	
SMMA	styrene methyl methacrylate		
SMS	styrene/a-methyl styrene		
SRP	self reinforcing polymer = LCP		
SVA	styrene vinyl acrylonitrile		
TDMAMP	Tris(Dimethylaminomethyl)Phenol	Epoxy curing agent	
TEDA	Triethylene Diamine (aka 1,4-Diazabicyclo-(2.2.2) Octane	tertiary amine catalyst	
TEO	thermoplastic elastic olefin		
TEPA	tetraethylenepentamine	Epoxy curing agent	
TETA	tetraethylenetetramine	Epoxy curing agent	
THPA	tetrahydro phthalic anhydride	Epoxy curing agent	
TMA	trimellitic anhydride	Epoxy curing agent	
TMC	thick molding compound		
TM-HDA	N,N,N',N'- Tetramethyl-1,6- hexanediamine		
TPE	Thermoplastic elastomers	Thermoplastic resin	
TPE-O, TPO	thermoplastic elastomer - olefinic		
TPE-S	thermoplastic elastomer - styrenic		
TPO	Thermoplastic olefin	Thermoplastic resin	
TPR	Thermoplastic rubber	Thermoplastic resin	
TPS	toughened polystyrene (aka HIPS or high impact polystyrene)		
TPU or TPUR	Thermoplastic polyurethane	Thermoplastic resin	4246-51-9
TPX*	polymethyl pentene copolymer		
TTD	4,7,10- Trioxatridecane-1,13- diamine	Epoxy curing agent	
TVO	thermoplastic vulcanites		
UF	urea formaldehyde		
UHMWPE	ultrahigh molecular weight polyethylene	Thermoplastic resin	
ULDPE	ultra low density polyethylene	Thermoplastic resin	
UP,UPE	unsaturated polyester (thermoset)	Thermoplastic or Thermoset resin	
VA	vinyl acetate		
VAE	vinyl acetate ethylene		
VCM	vinyl chloride monomer		
VLDPE	very low density polyethylene	Thermoplastic resin	
XLPE	cross-linked polyethylene		100-36-7
XPS	expandable polystyrene	Thermoplastic resin	
For Technical Assistance, Feedback, etc. Please contact us at:			
Specialty Polymers & Services, Inc.			
25012 Avenue Kearny			
Valencia, CA 91355			
Tel: 661-294-1790		Fax: 661-294-0640	
E-mail: info@spolymers.com		www.spolymers.com	