Technical Info

Technical	0	Chemical Resistance of Flastics @ 20 C									
	Acids dilute or weak	Acids strong and conc.	Alcohols, aliphatic	Alde- hydes	Bases	Esters	Hydro- carbons, aliphatic	Hydro- carbons, aromatic	Hydro carbons halogen- ated	Ketones	Oxi- dizing agents, strong
ACL	×	×									×
ECTFE/ ETFE											
FEP/TFE/ PFA											
FLPE											
XLPE											
HDPE/XLPE											
LDPE									×		
PC		×			×	×		×	×	×	×
PCT								×	×		×
PET		×		×	×	×		×	×	×	×
РММА		×	×			×		×	×	×	×
PMP									×		
PP/PPCO											
PS				×		×	×	×	×	×	×
PSF						×		×	×	×	
PUR					×	×		×	×	×	×
PVC Bottles				×		×		×	×	×	
Flexible PVC Tubing				×		×		×	×	×	
PVDF									×	×	
TPE				×		×	×	×	×	×	×

Chemical Resistance of Plastics @ 20° C

**Resin Codes** 

ACL- acetal (polyoxymethylene)

ECTFE- Halar ECTFE (ethylene-chlorotrifluoroethylene

copolymer)

ETFE- Tefzel ETFE (ethylene-tetrafluoroethylene)

FEP- Teflon FEP (fluorinated ethylene propylene)

FLPE- fluorinated high-density polyethylene

HDPE- high-density polyethylene

LDPE- low-density polyehylene

PC- polycarbonate

PCT- poly (1,4 cyclohexylene dimethylene terephthalate)

PET- polyethylene terephthalate PFA- Teflon PFA (perfluoroalkoxy) PMMA- polymethyl methacrylate (acrylic)

PMP- polymethylpentene ("TPX")

PP- polypropylene

PPCO- polypropylene copolymer

PS- polystyrene
PSF- polysulfone
PUR- polyurethane
PVC- polyvinyl chloride

PVDF- polyvinylidene fluoride

TFE- Teflon TFE (tetrafluoroethylene)

TPE- thermoplastic elastome

XLPE- cross-linked high-density polyetheylene

## Chemical Resistance Classifications



30 days of constant exposure cause no damage.. Plastic may even tolerate for years.



Little or no damage after 30 days of constant exposure to the reagent.

Some effect after 7 days of constant exposure to the reagent. Depeding on the plastic, the effect may be crazing, cracking, loss of strength or discoloration. Solvents may cause softening, swelling and permeation losses with LDPE, HDPE, PP, PPCO and PMP. The solvent effects on these five resins are normall reversible; the part will usually return to its normal condition after evaporation.



Not recommended for continuous use. Immediate damage may occur. Depending on the plastic, the effect will be a more severe crazing, cracking, loss of strength, discoloration, deformation, dissolution, or permetion loss.

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