



CHEMICAL COMPATIBILITY CHART

SANTOPRENE (TPE)

Our products can be exposed to a huge variety of chemicals. The data table below is an application guide, and indicates the resistance of the specific thermoplastics we use in the construction of our products, to common chemicals.

The data given should be used cautiously, and as a guide only. Various factors such as concentration, additives, exposure time, temperature and internal mechanical stress levels will all impact on the working life of our plastic parts.

Use the table conservatively and if any doubt exists, do not proceed with the application.

In the table below there are four ratings:

- **A-Excellent** indicates that at ambient temperature and pressure, the material should not be affected.
- **B-Good** indicates that the material is slightly affected but not to the point of being unsuitable.
- **C-Fair** indicates a degree of reaction that is generally considered unsuitable and should not be used.
- **D-Severe Effect** indicates that the material should not be used under any circumstances

All ratings are taken from data measured at ambient temperature and pressure.

CHEMICAL	COMPATIBILITY
Acetaldehyde	A-Excellent
Acetates	C-Fair
Acetone	C-Fair
Acetic acid	A-Excellent
Acetic Anhydride	A-Excellent
Acrylonitrile	A-Excellent
Alcohols	C-Fair
Aluminum Chloride	A-Excellent
Aluminum sulfate	A-Excellent
Ammonia	A-Excellent
Ammonium salts	A-Excellent
Ammonium hydroxide	A-Excellent
Amyl acetate	A-Excellent
Amyl alcohol	C-Fair
Aniline	C-Fair
Antimony salts	A-Excellent
Arsenic salts	A-Excellent
Barium salts	A-Excellent
Benzaldehyde	C-Fair
Benzene	D-Severe Effect
Benzyl alcohol	C-Fair
Benzoic acid	A-Excellent
Bleaching liquor	A-Excellent
Boric acid	A-Excellent
Bromine	A-Excellent
Butane	C-Fair
Butanol	C-Fair
Butyric acid	A-Excellent
Calcium salts	A-Excellent
Carbon Dioxide	A-Excellent
Carbon tetrachloride	D-Severe Effect
Chlorine (wet/dry)	A-Excellent
Chloroform	D-Severe Effect
Chloroacetic acid	A-Excellent
Chlorobenzene	D-Severe Effect
Chronic acid	A-Excellent
Chromium salts	A-Excellent
Copper salts	A-Excellent
Cyclohexane	D-Severe Effect
Essential Oils	C-Fair
Ethers	C-Fair
Ethanol	C-Fair
Freon	D-Severe Effect
Furfural	C-Fair
Ethyl chloride	D-Severe Effect
Ethylene glycol	A-Excellent
Ferric salts	A-Excellent
Fluoborate salts	A-Excellent
Fluoboric acid	A-Excellent
Fluosilicic acid	A-Excellent
Formaldehyde	A-Excellent
Formamide	A-Excellent
Formic acid	A-Excellent
Gasoline, unleaded	D-Severe Effect

Glucose	A-Excellent
Glycerins	A-Excellent
Hydrochloric acid	A-Excellent
Hydrocyanic acid	A-Excellent
Hydrogen peroxide	A-Excellent
Hydrogen sulfide	A-Excellent
Kerosene	D-Severe Effect
Iodine and solutions	A-Excellent
Lactic acid	A-Excellent
Lacquer	D-Severe Effect
Lead salts	A-Excellent
Linseed Oil	A-Excellent
Lithium grease	C-Fair
Magnesium salt	A-Excellent
Maleic acid	A-Excellent
Manganese salts	A-Excellent
Me Et Ketone	C-Fair
Mercury salts	A-Excellent
Methanol	A-Excellent
Naphtha	D-Severe Effect
Natural gas	A-Excellent
Nickel salts	A-Excellent
Nitric acid-10%	A-Excellent
Nitric acid- 70%	D-Severe Effect
Nitroethane	A-Excellent
Nitrogen oxides	A-Excellent
Nitric acid-30%	C-Fair
Nitrobenzene	C-Fair
Nitrous acid	A-Excellent
Oils, animal	A-Excellent
Oils. mineral	A-Excellent
Oils. vegetable	A-Excellent
Oleic acid	C-Fair
Oxalic acid	A-Excellent
Oxygen	A-Excellent
Perchloroethylene	D-Severe Effect
Phenol	C-Fair
Phosphoric acid	A-Excellent
Phthalic acid	A-Excellent
Phosphoric acid	A-Excellent
Plating solutions	A-Excellent
Potassium salts	A-Excellent
Propanol	C-Fair
Pyridine	C-Fair
Silver salts	A-Excellent
Skydrol 500-B4	C-Fair
Soap solutions	A-Excellent
Sodium salts	A-Excellent
Sodium hydroxide	A-Excellent
Sodium hypochlorite	A-Excellent
Stearic acid	A-Excellent
Sulfuric acid-90%	C-Fair
Sulfur dioxide	A-Excellent
Sulfuric acid, dil.	A-Excellent
Sulfurous acid	A-Excellent

Tannic acid	A-Excellent
Tanning extracts	A-Excellent
Tetrahydrofuran	C-Fair
Toluene	D-Severe Effect
Trichloroethylene	D-Severe Effect
Trisodium phosphate	A-Excellent
Turpentine	C-Fair
Urea	A-Excellent
Uric acid	A-Excellent
Water	A-Excellent
Water (brine)	A-Excellent
Water (stoam)	A-Excellent
Xylene	D-Severe Effect
Zinc salts	A-Excellent