

Chemical Compatibility Chart for Plazit-Polygal PLAZGAL PETG Sheets

The chemical resistance table gives an indication of the chemical resistance of PLAZGAL PETG to a range of common chemicals, judged by visual examination of samples immersed in various liquids at 20oc.

PLAZGAL PETG sheets can be safely used with most chemical materials and components. The chemical stability depends on many factors such as concentration of the chemical agents, internal stresses and on expose temperature.

The resistance of PETG sheets is indicated in the table below.

Chemical	Concentration	Compliance
Acetaldehyde	40%	Affected
Acetic acid	5%	Not affected
Acetic acid	10%	Not affected
Acetic acid (glacial acetic acid)	90%	Affected
Acetone		Affected
Acid, battery	38%	Affected
Aluminium chloride	10%, aqueous	Not affected
Aluminium sulfate	10%	Not affected
Ammonia	25%	Not affected
Ammonium chloride	aqueous	Not affected
Ammonium sulfate	10%,saturated, aqueous	Not affected
Amyl acetate		Not affected
Amyl alcohol		Not affected
Antifreeze (Ethyleneglycol)		Not affected
Benzoic acid	saturated, aqueous	Not affected
Benzene		Affected
Borax		Not affected
Boric acid	10%, aqueous	Not affected
Brake fluid DOT3		Not affected
Butanol	Tech. pure	Not affected
Calcium chloride	aqueous	Not affected
Calcium nitrate	50%, aqueous	Not affected
Carbon dioxide, dry	Tech. pure	Not affected
Carbon tetrachloride		Not affected
Caustic potash		Affected
Caustic soda		Affected
Chlorinated water		
Chlorine	10% wet	Affected
Chlorine	Gas	Affected

Chemical	Concentration	Compliance
Chlorine	Conc. 97%	Affected
Chlorobenzene		Not affected
Chlorsulphonic acid (mono)	Tech.pure	Affected
Chromic acid	10%	Dissolved
Chromic acid	20%, 50% aqueous	Affected
Citric acid		Not affected
Common salt		Not affected
Cyclohexane		Not affected
Cyclohexanone	Tech. pure	Affected
Detergent solution		Not affected
Dichloroethylene	Tech. pure	Affected
Diesel fuel		Not affected
Diesel oil	100%	Not affected
Dibutyl phthalate		Not affected
Engine oil		Not affected
Ethanol	50%, 96%	Not affected
Ethyl acetate		Dissolved
Ethyl alcohol	40%	Not affected
Ethyl alcohol	96%	Not affected
Ethyl chloride		Affected
Ethylene glycol		Not affected
Fat, vegetable	Tech.pure	Not affected
Formaldehyde	10%, 40%	Not affected
Formic acid	3%	Not affected
Fruit juices/wine		Not affected
Gelatine/animal glue		Not affected
Glycerin		Not affected
Glycol		Not affected
Glucose/grape sugar		Not affected
Hexane		Not affected
Hydrochloric acid	1-5%	Not affected
Hydrofluoric acid	Conc.	Affected
Hydrogen peroxide	3%, 28%	Not affected

Chemical	Concentration	Compliance
Hydrosulfide	saturated	Not affected
Isooctane		Not affected
Kerosene		Not affected
Lactic acid	3%, aqueous	Not affected
Lead acetate	aqueous	Not affected
Linseed oil		Not affected
Lubricating oil		Not affected
Magnesium sulphate	Aqueous, saturated	Not affected
Methyl alcohol		Not affected
Methyl acetate	Tech. pure	Dissolved
Methyl ethyl ketone		Affected
Methylene chloride		Affected
Milk		Not affected
Molasses		Not affected
Molasses wort		Not affected
Nitric acid	60-100%	Affected
Nitric acid	1-50%	Not affected
Oil (vegetable)		Not affected
Oleic acid	Tech.pure	Not affected
Oleum		Affected
Olive oil		Not affected
Oxalic acid	aqueous	Not affected
Perchloric acid		Affected
Petrol 10% ethyl alcohol		Dissolved
Petrol 10% methanol		Dissolved
Petroleum		Not affected
Phenol		Affected
Phosphoric acid	1-5%	Not affected

Chemical	Concentration	Compliance
Potash	Aqueous, saturated	Not affected
Potassium hydroxide		Affected
Propyl alcohol		Not affected
Salt/sea water		Not affected
Silicic acid		Not affected
Silicone oil		Not affected
Soap solution		Not affected
Sodium carbonate	aqueous	Not affected
Sodium chloride		Not affected
Sodium hydroxide	1%	Dissolved
Sodium hydroxide	1% and more	Affected
Sulfuric acid	Conc.	Affected
Sulfuric acid	3%	Not affected
Sulfuric acid	30%	Not affected
Tapping oil		Not affected
Tetralin		Not affected
Transformer oil		Not affected
Trichloroethane		Dissolved
Toluene		Affected
Turpentine		Not affected
Turpentine oil		Not affected
Urea	aqueous	Not affected
Water		Not affected
Wax alcohol	Tech. pure	Not affected
Wines / Wine vinegar		Not affected
Zinc sulphate	10%, aqueous	Not affected

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