Marpet-g FS

PETg Sheet
Chemical Resistance

The data below concerning the chemical resistance of PETg has been obtained from publically available data sources. The data should be treated with caution and should only be regarded as an indication of the chemical resistance since the resistance performance can be affected by many factors, such as temperature, concentration, and whether the samples are under stress. It is also difficult to predict the resistance against compounds containing several different chemicals.

Resistance: 1= stable, 2= conditionally stable, 3= unstable

	Concentration	Room Temp 20ºC	Elevated Temp 50ºC
Acetaldehyde	40%	3	3
Acetic acid	10%	1	1
Acetic acid	5 %	1	1
Acetic acid (glacial acetic acid)	90%	3	3
Acetic acid ester	100 %	3	3
Acetone		3	3
Acetonenitrile		-	3
Acid, battery	38 %	3	3
Allyl alcohol	96 %	1	-
Alum		1	1
Aluminium chloride	10 %	1	1
Aluminium chloride	aqueous	1	1
Aluminium nitrate	aqueous	1	1
Aluminium sulfate	10 %	1	1
Ammonia	25 %	1	3
Ammonia liquor	any	1	3
Ammonium chloride	aqueous	1	1
Ammonium fluoride	saturated	1	1
Ammonium fluoride	aqueous	1	1
Ammonium nitrate	10 %	1	1
Ammonium nitrate	saturated	1	1
Ammonium nitrate	aqueous	1	1
Ammonium sulfate	10 %	1	1
Ammonium sulfate	saturated	1	1

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	Concentration	Room Temp 20ºC	Elevated Temp 50ºC
Ammonium sulfate	aqueous	1	1
Amyl acetate (Pentylacetate)		1	2
Amyl alcohol		1	-
Antifreeze (Ethyleneglycol)		1	-
Aqua regia		3	3
Beer		1	-
Benzene		3	3
Benzoic acid	saturated	1	-
Benzoic acid	aqueous	1	-
Borax	any	1	1
Boric acid	10 %	1	-
Boric acid	aqueous	1	-
Brake fluid DOT 3		1	1
Brandy		1	-
Bromic vapours		3	3
Bromine		3	3
Butane	Techn. Pure	1	-
Butanol	Techn. pure	1	-
Butinediol	10 %	1	-
Butyl acetate		2	-
Calcium chloride	aqueous	1	-
Calcium hypochlorite	aqueous	2	-
Calcium hypochlorite	saturated	2	-

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	Concentration	Room Temp 20ºC	Elevated Temp 50ºC
Calcium nitrate	50 %	1	1
Calcium nitrate	aqueous	1	1
Carbon dioxide, dry	techn. Pure	1	1
Carbon dioxide, umid	techn. Pure	1	1
Carbon tetrachloride		1	3
Carbonic acid	saturated	1	1
Caustic potash	30 %	3	3
Caustic potash	50 %	3	3
Caustic potash	aqueous	3	3
Caustic potash	10 %	3	3
Caustic potash	50 %	3	3
Caustic soda		3	3
Chlorinated water		3	3
Chlorine	10 % wet	3	3
Chlorine	97 %	3	3
Chlorine gas		3	3
Chloroacetic acid		3	3
Chloroacetic acid (mono)	50 %	3	3
Chloroacetic acid (mono)	techn. pure	3	3
Chlorobenzene		1	3
Chlorsulphonic acid	techn. pure	3	3
Chromic acid	10 %	2	-
Chromic acid	20 %	3	3
Chromic acid	50 %	3	3
Chromic acid	aqueous	3	3
Chromic alum	saturated	1	1

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	Concentration	Room Temp 20ºC	Elevated Temp 50ºC
Chromic sulphuric acid	pur	3	3
Citric acid	10 %	1	2
Citric acid	10 %	1	2
Common salt		1	1
Common salt	aqueous	1	1
Copper sulphate	aqueous	1	1
Crude oil	100 %	1	-
Cyclanone		1	1
Cyclohexane		1	-
Cyclohexanone	techn. pure	3	3
Dekalin (Decahydronaphtalin	100 %	2	-
Detergent solution		1	1
Dextrine		1	1
Dextrine	aqueous	1	1
Dibutyl phthalate (DBP)		1	-
Dichloroethylene	techn. Pure	3	3
Diesel oil	100 %	1	1
Dimethyl formamide		1	-
Dioxane		1	-
Emissions, carbon dioxide	low	1	1
Engine oil		1	1
Ethanol	50 %	1	1
Ethanol	96 %	1	1
Ethyl acetate		2	3
Ethyl alcohol	40 %	1	1

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	Concentration	Room Temp 20ºC	Elevated Temp 50ºC
Ethyl acetate		2	3
Ethyl alcohol	40 %	1	1
Ethyl alcohol	96 %	1	1
		3	3
Ethylene glycol		1	-
Fat, vegetable		1	-
Fatty acid	techn. Pure	1	-
Fertilizer salts	saturated	1	-
Fluorhydric acid	100 %	3	3
Fluorhydric acid	4 %	3	3
Fluorhydric acid	50 %	3	3
Fluorine		3	3
Fluorine	dry	3	3
Formaldehyde	10 %	1	-
Formaldehyde	40 %	1	-
Formic acid	3 %	1	-
Fruit juices		1	-
Fruit wine		1	1
Gelatine	any	1	1
Gelatine	aqueous	1	1
Glacial acetic acid		3	3
Glucose	any	1	1
Glue (animal glue, gelatine)	any	1	1
Glycerin	any	1	-

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	Concentration	Room Temp 20ºC	Elevated Temp 50ºC
Glykol		1	-
Grape sugar	any	1	1
Grape sugar	aqueous	1	1
Hexane		1	-
Hexane, -n		1	-
Hydrobromic acid	40%	3	3
Hydrobromic acid	50%	3	3
Hydrobromic acid	diluted	2	-
Hydrobromic acid	1-5 %	1	1
Hydrobromic acid	20 %	2	-
Hydrobromic acid	35 %	3	3
Hydrobromic acid	conc.	3	3
Hydrofluosilicic acid	32 %	3	3
Hydrogen fluoride	anhydrous	3	3
Hydrogene chloride gas		3	3
Hydrosulphide	saturated	1	-
Isooctane	techn. Pure	1	-
Kerosene		1	-
Kerosene		1	1
Lactic acid	3%	1	-
Lactic acid	aqueous	1	-
Lead acetate	aqueous	1	1
Lead-(II)-acetate		1	1
Linseed oil	techn. pure	1	-
Liqueurs		1	-
Lubricating oil		1	1
Ethyl alcohol	96 %	1	1

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	Concentration	Room Temp 20ºC	Elevated Temp 50ºC
Magnesium sulphate	saturated	1	1
Magnesium sulphate	aqueous	1	-
Magnesium chloride	aqueous	1	-
Mercury	pur	1	1
Mercury chloride	aqueous	1	1
Methanol		1	-
Methyl acetate	techn. pure	2	-
Methyl alcohol (methanole)		1	-
Methyl ethyl ketone		3	3
Methylen chloride		3	3
Milk		1	1
Molasses		1	-
Molasses Wort		1	1
Mowilith D		1	1
Nitric acid	100%	3	3
Nitric acid	1-10%	1	1
Nitric acid	50%	1	1
Nitric acid	66%	3	3
Nitric acid	70%	3	3
Oil (vegetable) and animal fats		1	-
Oleic acid	techn. Pure	1	-
Oleum	10 % SO3	3	3
Olive oil		1	-
Oxalic acid	aqueous	1	1
Palm-oil		1	-

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	Concentration	Room Temp 20ºC	Elevated Temp 50ºC
Perchloric acid		3	3
Petrol		1	1
Petrol 10% ethyl alcohol		2	-
Petrol 10% methanol		2	-
Petrol normal		2	-
Petrol normal unleaded		2	-
Petrol super unleaded		2	-
Petroleum		1	1
Phenol	100%	3	3
Phenol	10%	3	3
Phoshoric acid	1-5%	1	-
Photographic developers		1	-
Phthalilc acid	saturated	1	-
Plasticiser, DBS		1	1
Plasticiser, DOP		1	1
Potash	saturated	1	1
Potash	aqueous	1	1
Potassium bichromate	saturated	2	-
Potassium borate	10%	1	1
Potassium borate	aqeuous	1	1
Potassium bromide	any	1	1
Potassium chloride	aqueous	1	-
Potassium hydroxide	50%	3	3
Potassium hydroxide	conc.	1	-
Ethylene glycol		1	-

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	Concentration	Room Temp 20ºC	Elevated Temp 50ºC
Potassium hydroxide	aqueous	3	3
Potassium hydroxide	10 %	3	3
Potassium hydroxide	1%	3	3
Potassium nitrate	50 %	1	1
Potassium nitrate	aqueous	1	1
Potassium permanganate		1	1
Potassium permanganate	aqueous	1	1
Propane	liquid	1	-
Propane	gaseous	1	-
Propyl alcohol		1	-
Propyl alcohol	100 %	1	-
Sea water		1	1
Silicic acid	any	1	1
Silicone oil		1	-
Silver nitrate		1	1
Silver nitrate	aqueous	1	1
Silver salt	saturated	1	1
Soap solution	any	1	1
Sodium carbonate	aqueous	1	-
Sodium carbonate	aqueous	1	-
Sodium chloride	any	1	1
Sodium chloride	aqueous	1	1
Sodium fluoride	saturated	1	1
Sodium hydroxide	1%	2	2
Sodium hydroxide	50 %	3	3

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	Concentration	Room Temp 20ºC	Elevated Temp 50ºC
Sodium hydroxide	30 %	3	3
Sodium hydroxide	45 %	3	3
Sodium hydroxide	60 %	3	3
Sodium hydroxide	aqueous	3	3
Sodium hypochlorite		2	2
Sodium hypochlorite	12 % Cl	2	2
Sodium hypochlorite	15 %	2	2
Sodium hypochlorite	50 %	3	3
Sodium hypochlorite	saturated	3	3
Sodium hypochlorite	diluted	2	2
Sodium hypochlorite	aqueous	2	2
Sodium hypochlorite solution	20 %	2	2
Sodium hypochlorite solution	50 %	3	3
Sodium hypochlorite solution	diluted	2	-
Sodium nitrate	saturated	1	1
Sodium nitrate	aqueous	1	-
Sodium silicate	aqueous	1	-
Sodium silicate	any	1	-
Sodium sulfide	aqueous	1	-
Spindle oil		1	-
Starch dilution	any	1	1
Starch sirup		1	1

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	Concentration	Room Temp 20ºC	Elevated Temp 50ºC
Stearic acid	crystals	1	-
Styrene	100 %	1	1
Sugar sirup		1	1
Sulphur	techn. pure	1	1
Sulphur trioxid		3	3
Sulphuric acid	40 %	3	3
Sulphuric acid	60 %	3	3
Sulphuric acid	80 %	3	3
Sulphuric acid	95 %	3	3
Sulphuric acid	smoking	3	3
Tallow	techn. Pure	1	-
Terpentine		1	1
Terpentine oil		1	-
Tetralin		1	-
Toluene		1	-
Transformer oil	100%	1	1
Trichlorethylene	100%	3	3
Triethanol amine	techn. Pure	1	-
Urea	aqueous	1	-
Urea	(carbamide)	1	-
Urine		1	-
Water		1	1
Water, distilled/desalted		1	1
Wax alcohol	techn. pure	1	-

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	Concentration	Room Temp 20ºC	Elevated Temp 50ºC
Wine vinegar		1	1
Wines		1	1
Yeast any		1	-
Zinc sulphate	10%	1	1

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