

CHEMICAL RESISTANCE OF POLYPROPYLENE

This summary is a consensus of test data compiled on the chemical resistance of polypropylene. This data is based on homo-polymer type polypropylene. In general, co-polymers and fillers do not have any adverse affect on the chemical resistance properties listed.

- Legend: 1. Satisfactory (no effect)
 2. Generally satisfactory (minor effect)
 3. Fair (noticeable effect)
 4. Unsatisfactory (severe effect)
 -- No test data available

COMPOUND	73 F	120 F	150 F	212 F
Acetaldehyde	1	1	--	--
Acetic Acid, 50%	1	1	1	1
Alcohol, Ethyl	1	1	2	2
Aluminum Sulphate	1	1	1	1
Ammonia, 25% sol.	1	1	1	--
Ammonium Nitrate	1	1	1	1
Asphalt (tar)	1	1	1	3
Boric Acid	1	1	1	1
Butyric Acid	1	1	1	1
Calcium Chloride, 50% sol.	1	1	1	2
Calcium Hypochlorite	1	1	2	3
Calcium Hydroxide	1	1	1	1
Chromic Acid, 50%	1	2	2	3
Citric Acid 10%	1	1	3	4
Copper Salts	1	1	2	--
Corn Oil	1	1	2	--
Cottonseed Oil	1	1	2	--
Detergent Solution, Heavy Duty	1	1	1	2
Household Detergent	1	1	2	--
Hydrobromic Acid, 50%	1	1	3	--
Hydrofluoric Acid, 50%	1	--	--	--
Hydrogen Peroxide, 28% sol.	1	2	3	4
Hydrogen Peroxide, Dry	1	1	2	--
Hydrogen Sulfide, Wet	1	1	2	--
Lead Acetate	1	1	1	1
Liquefied Petroleum Gas (LPG)	2	3	4	--

OVER

COMPOUND	73 F	120 F	150 F	212 F
Lye	1	--	--	--
Methanol, 100%	1	1	2	2
Mineral Oil (white)	1	2	4	4
Nitric Acid, dil.	1	1	1	1
Nitric Acid, 30%	1	1	--	--
Nitric Acid, 50%	1	4	4	4
Nitric Oxide	1	--	--	--
Oxygen Gas	1	1	1	1
Phosphoric Acid, 85%	1	1	2	2
Phosphoric Acid, 50%	1	1	1	2
Phosphoric Acid, 25%	1	1	1	1
Photographic Sol.	1	1	1	--
Plating Sol. (any)	1	1	1	1
Potassium Carbonate	1	1	1	1
Potassium Chlorate	1	1	1	2
Potassium Chloride	1	1	1	2
Potassium Hydroxide, 50%	1	1	1	--
Potassium Iodide	1	--	--	--
Soapless Detergent	1	--	--	--
Sodium Hypochlorite, conc.	1	2	3	4
Sodium Nitrate	1	1	1	1
Sodium Phosphate, Alkaline	1	1	1	1
Sodium Phosphate, Acid	1	1	1	1
Sodium Sulfate	1	1	1	--
Sulfur Dioxide, Dry	1	--	--	--
Sulfur Dioxide, Wet	1	--	--	--
Sulfuric Acid, 50%	1	1	2	3
Sulfuric Acid, 10%	1	1	1	2
Sulfurous Acid	1	1	1	--
Two-Stroke Oil (outboard motor oil)	1	1	4	4
Whisky	1	1	1	--
Zinc Chloride	1	1	1	1
Zinc Sulfate	1	1	1	1