

Chemical resistance of polypropylene and common chemicals:

Acids

Product	Rating ¹⁾	
	20 °C	60 °C
Benzoic acid	1	2
Boric acid	1	1
Hydrobromic acid 25 %	2	3
Citric acid	1	1
Hydrocyanic acid	2	2
Hydrofluoric acid	2	2
Phosphoric acid 25 %	1	1
Phosphoric acid 85 %	1	1
Phthalic acid	1	1
Tannic acid	1	1
Chromic acid	1	2
Maleic acid	1	1
Oleic acid	2	3
Oxalic acid	1	1
Nitric acid 5 %	2	3
Nitric acid 65 %	4	4
Chlorhydric acid 10 %	1	1
Chlorhydric acid 37 %	2	3
Butyric acid	1	1
Sulphuric acid 10 %	1	1
Sulphuric acid 78 %	2	4
Sulphuric acid 93 %	3	4
Tartaric acid	1	1
Acetic acid 10 %	1	1
Acetic acid 50 %	1	1
Acetic acid 75 %	1	1
Acetic acid 100 %	2	3
Perchloric acid	1	2

Bases

Product	Rating ¹⁾	
	20°C	60°C
Aqua ammonia	1	1
Calciumhydroxide	1	1
Potassiumhydroxide	1	1
Caustic soda	1	1
Acid salt ²⁾	1	1
Basic salt ³⁾	1	1
Neutral salt ⁴⁾	1	1
Various salt		
Potassium bicarbonate	1	2
Potassium permanganate	1	2
Sodium cyanide	1	1
Natriumferricyanid	1	2
Sodium hypochlorite	2	3

Organic Substances, Solvents

Product	Rating ¹⁾	
	20°C	60°C
Acetone	2	2
Aniline	1	1
Benzol	3	4
Petrol	4	4
Butyl alcohol	1	1
Ethyl acetate	2	4
Ethyl alcohol	1	1
Ethyl dichloride	3	4
Ethyl ether	4	4
Phenol	2	2
Formalin 37%	1	2
Heptanes	3	4
Chlorobenzene	3	4
Chloroform	4	4
Carbon disulphide	4	4
Carbon tetrachloride	4	4
Methyl alcohol	1	1
Methylene (di)chloride	4	4

Product	Rating ¹⁾	
	20°C	60°C
Methyl ethyle ketone	3	4
Nitrobenzene	3	4
Toluene	3	4
Trichlorethylene	4	4
Gases		
Chlorine (damp)	2	4
Chlorine (dry)	2	4
Carbon dioxide	1	1
Carbon monoxide	1	1
Sulphur dioxide (damp)	2	3
Sulphur dioxide (dry)	2	3
Hydrogen sulphide	1	1

¹⁾ Rating:

1. Excellent (no attack)
2. Good (no significant attack)
3. Acceptable (light attack, limited use)
4. Unacceptable (significant attack)
5. Inferior (possible cracking or dissolving)

²⁾ Acid salt (normally aqueous) aluminum chloride, aluminum phosphate, copper chloride, sulphate of copper, ferrous sulphate, ferric chloride, stannic chloride, chloride of zinc, white vitriol etc

³⁾ Basic salt (normally aqueous) bicarbonate of potassium, potash, sodium bicarbonate, sodium carbonate, sodium phosphate etc.

⁴⁾ Neutral salt (normally aqueous) calcium chloride, calcium nitrate, calcium sulphate, magnesium chloride, nitrate of potassium, potassium sulphate, sodium chloride, sodium nitrate, sodium sulphate etc.