



Solid/Corrugated Polypropylene Sheet Chemical Resistance Technical Data

Rating System

This chart rates the chemical resistance of polypropylene resin according to the following code:

Note: The user is advised to make their own tests to determine the suitability of polypropylene in the particular environment.

A = Negligible effect

Should be suitable for all applications where these environmental conditions exist.

B = Limited absorption or attack

Should be suitable for most applications.

C = Excessive absorption and/or rapid permeation

Should be suitable for applications where only intermittent service is involved, or where the swelling produced has no detrimental effect on the part.

D = Extensive attack

The specimen dissolves or disintegrates. Polypropylene is not recommended.

Reagent	Conc. %	20 C	40C	60C
Acetic acid	10	A	A	—
Acetone	100	A	A	—
Ammonium hydroxide	10	A	A	—
Amyl acetate	100	B	C	—
Aviation fuel (115/145 octane)	100	B	C	—
Beer		A	A	—
Benzene	100	B	C	C
Butyl acetate	100	C	C	—
Calcium hypochlorite bleach	20*	A	B	—
Carbon disulfide	100	B	C	—
Carbon tetrachloride	100	C	C	C
Chlorine (gas)	100	D	D	—
Chloroform	100	C	D	D
Chromic acid	10*	A	A	—
Citric acid	10	A	A	—
Cyclohexanol	100	A	B	—
Detergents	2	A	A	A
Ethyl acetate	100	B	B	—
Ethyl alcohol	96	A	A (80 C)	—
Ethylene glycol		A	A	—
Fructose		A	A	—
Gasoline	100	B	C	C
Hydrochloric acid	10	A	A (80 C)	B
Hydrogen peroxide	10	A	B	—
Isopropyl alcohol	100	A	A	—
Methyl alcohol	100	A	A	—
Methyl ethyl ketone	100	A	B	—
Mineral oil	100	A	B	—
Motor Oil	100	A	B	—
Nitric acid	70*	C	D	—
Nitrobenzene	100	A	A	—
Phosphoric acid	95	A	A	—
Potassium hydroxide	50	A	A	—
Sodium hydroxide	50	A	A	—
Sugars and syrup		A	A	—
Sulfuric acid	98*	C	—	D
Sulfuric acid	10	A	A	A
Toluene	100	C	C	—
Turpentine	100	C	C	C
Water (distilled, soft, hard and vapor)		A	A	A
Wines		A	A	—
Xylene	100	C	C	C

* May produce cracking in material under stress

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