

## Corrugated/Solid 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 his or her 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, but the user is advised to make his or her own tests to determine the suitability of polypropylene in the particular environment.

#### C = Extensive 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. The user should make his or her own tests to determine the suitability of polypropylene in the particular environment.

#### D = Extensive attack

The specimen dissolves or disintegrates. Polypropylene is not recommended.

(a) May produce cracking in material under stress.

Reagent	Conc. %	20 C	40 C	60 C
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)	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	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(a)	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(a)	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