

CHEMICAL RESISTANCE DATA POLYCAST[®] CELL CAST ACRYLIC SHEET

The following table explains the effect of chemicals on cast acrylic sheet. Temperature, mechanical stress and concentration of the chemical agents are also important variables. The higher their values, the more severe the effect.

Crosslinked acrylic products such as CR76 will have superior resistance to chemical attack with all chemicals.

R RESISTANT: Withstands this substance for long periods and at temperature up to 120° F (49 Celsius).

LR LIMITED RESISTANCE: Only resists the action of this substance for short periods at room temperature, the suitability for a particular application must be determined.

N NOT RESISTANT: Not resistant to this substance.

CHEMICAL	CODE	CHEMICAL	CODE	CHEMICAL	CODE
Acetic Acid (5%)	R	Ethyl Alcohol (50%)	LR	Nitric Acid (40%)	LR
Acetic Acid (Glacial)	N	Ethyl Alcohol (95%)	N	Nitric Acid (Conc.)	N
Acetic Anhydride	LR	Ethylene Dichloride	N	Oleic Acid	R
Acetone	N	Ethylene Glycol	R	Olive Oil	R
Ammonium Chloride (Saturated)	R	2-Ethylhexyl Sebacate	R	Phenol Solution (5%)	N
Ammonium Hydroxide (10%)	R	Formaldehyde (40%)	R	Soap Solution (Ivory)	R
Ammonium Hydroxide (Conc.)	R	Gasoline (Regular, Leaded)	LR	Sodium Carbonate (2%)	R
Aniline	N	Glycerine	R	Sodium Carbonate (20%)	R
Battery Acid	R	Heptane	R	Sodium Chloride (10%)	R
Benzene	N	Hexane (Commercial Grade)	R	Sodium Hydroxide (1%)	R
Butyl Acetate	N	Hydrochloric Acid	R	Sodium Hydroxide (10%)	R
Calcium Chloride (Sat.)	R	Hydrogen Peroxide (3%)	R	Sodium Hydroxide (60%)	R
Calcium Hypochlorite	R	Hydrogen Peroxide (28%)	N	Sodium Hypochlorite (5%)	R
Carbon Tetrachloride	N	Isooctane	R	Sulfuric Acid (3%)	R
Chloroform	N	Isopropyl Alcohol	LR	Sulfuric Acid (30%)	R
Chromic Acid (40%)	N	Kerosene	R	Sulfuric Acid (Conc.)	N
Citric Acid (10%)	R	Lacquer Thinner	N	Toluene	N
Cottonseed Oil (Edible)	R	Methyl Alcohol (50%)	LR	Transformer Oil	R
Detergent Solution (Heavy Duty)	R	Methyl Alcohol (100%)	N	Trichloroethylene	N
Diesel Oil	R	Methyl Ethyl Ketone (MEK)	N	Turpentine	LR
Diethyl Ether	N	Methylene Chloride	N	Water (Distilled)	R
Dimethyl Formamide	N	Mineral Oil	R	Xylene	N
Diocetyl Phthalate	N	Naphtha (VM&P)	R		
Ethyl Acetate	N	Nitric Acid (10%)	R		

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