CYRO Acrylite® ACRYLIC SHEET

CHEMICAL RESISTANCE IN GENERAL USE

	Resistant	Limited Resistance	Not Resistant
Paint			
Acrylic paints and lacquers		x	
Aromatic-free hydrocarbons	x		
Nitrocellulose			x
Oil paints, pure	x		
Thinners, general			x
Chemical Process Baths			
Electroplating baths	x		
Photographic baths	x		
Building Materials and Protective Agents for Buildings			
Bituminous emulsion			x
Cement	x		
Hot bitumen		x	
Mortar	x		
Plaster of paris	x		
Red lead	x		
Chemicals, Solvents, etc.			
Acetic acid, glacial			x
Acetic acid, to 25%		x	
Acetic acid, 5% (vinegar)	x		
Acetone			x
Alum	x		
Aluminium chloride	x		
Aluminium oxalate	x		
Aluminium sulphate	x		
Ammonia, aqueous solution	x		
Ammonium sulphate	x		
Amyl acetate			x
Aniline			x
Arsenic	x		
Arsenic acid	x		
Battery acid	x		
Benzaldehyde			x
Benzene			x
Bromine			x
Butanol		x	
Butyl lactate			x
Butyric acid, to 5%	x		
Calcium chloride	x		
Calcium hypochlorite	x		
Carbon disulphide			x
Carbon tetrachloride			x
Chlorinated hydrocarbons			x
Chlorine, liquid			x
Chlorine water		x	
Chloroethyl acetate			x
Chlorophenol			x
Chromic acid		x	
Citric acid, to 20%	x		
Copper sulphate	x		
Cresol			x
Cyclohexane	x		
Diacetone alcohol			x
Diamyl phthalate		x	
Dibutyl phthalate			x
Diethylene glycol	x		
Dioxane			x
Ether			x
Ethyl acetate			x
Ethyl alcohol, to 15%	x		
Ethyl alcohol, 15-30%		x	
Ethyl alcohol, above 30%			x
Ethyl bromide			x
Ethyl butyrate			x
Ethylene bromide			x
Ferric chloride	x		
Ferrous chloride	x		
Ferrous sulphate	x		
Formic acid, to 2%	x		
Formic acid, to 40%		x	
Glycerol	x		
Glycol	x		
Heptane	x		
Hexane	x		
Hydrochloric acid	x		
Hydrofluoric acid, to 20%	x		
Hydrogen peroxide, to 40%	x		
Hydrogen peroxide, over 40%		x	
Iodine	x		
Isopropyl alcohol, to 50%		x	
Lactic acid, to 80%		x	
Magnesium chloride	x		
Magnesium sulphate	x		
Manganese sulphate	x		
Mercury	x		
Methanol, absolute			x
Methanol, to 15%		x	
Methyl ethyl ketone			x
Methylated spirits			x
Milk of lime	x		
Monobromonaphthalene	x		
Motor fuel, benzene-free	x		
Motor fuel, with benzene			x
Nickel sulphate	x		
Nitric acid, to 20%	x		
Nitric acid, 20-70%		x	
Nitric acid, over 70%			x
Oxalic acid	x		
Paraffin		x	
Perchloroethylene			x
Petroleum ether	x		
Phenols			x
Phosphoric acid, to 10%	x		
Phosphorus			x
Phosphorus trichloride			x
Picric acid, 1% in water	x		
Potassium carbonate	x		
Potassium chloride	x		
Potassium cyanide	x		
Potassium dichromate	x		
Potassium hydroxide	x		
Potassium nitrate	x		
Potassium permanganate	x		
Silicon tetrachloride			x
Silver nitrate	x		
Soap solution	x		
Soda	x		
Sodium bisulphite	x		
Sodium carbonate	x		
Sodium chlorate	x		
Sodium chloride	x		
Sodium hydroxide	x		
Sodium hypochlorite	x		
Sodium sulphate	x		
Sodium sulphide	x		
Stearic acid	x		
Sulphur	x		
Sulphur dioxide, liquid			x
Sulphuric acid, to 30%	x		
Sulphurous acid, conc.		x	
Sulphurous acid, to 5%	x		
Sulphuryl chloride	x		
Tartaric acid, to 50%	x		
Thionyl chloride			x
Toluene			x
Triethylamine	x		
Trichloroacetic acid			x
Tricresyl phosphate	x		
Turpentine		x	
Turpentine substitute		x	

RESISTANT = COMPATIBLE LIMITED RESISTANCE = NOT COMPATIBLE NOT RESISTANT = NOT COMPATIBLE

CONTINUED ON REVERSE SIDE ▶

Dallas, Texas (Corporate Offices) phone 800-782-1836 / 214-239-3870 fax 214-239-3871
Houston, Texas phone 800-282-4388 / 713-979-0660 fax 713-979-0664
Brandon, Mississippi phone 800-457-8623 / 601-825-7919 fax 601-825-7109
www.nationwideplastics.net

	Resistant	Limited Resistance	Not Resistant
Urea, to 20%	x		
Xylene			x
Zinc sulphate, aqueous		x	
Zinc sulphate, solid	x		
Disinfectants			
Aqueous hypochlorite solution	x		
Bleaching powder, to 5%	x		
Carbolic acid			x
Hydrogen peroxide, to 40%	x		
Hydrogen peroxide, over 40%		x	
Lugol solution	x		
Mercuric chloride	x		
Surgical spirit			x
Tincture of iodine, 5%			x
Greases, Oils, Waxes			
Animal	x		
Mineral	x		
Silicone oil		x	
Vegetable		x	
Plastics			
Foams	x		
Foams, containing plasticizer			x
Polyamide	x		
Polyethylene	x		
PVC	x		
PVC, plasticized			x
Rubber	x		
Rubber, containing plasticizer			x
Food and Spices			
Aniseed, bay, nutmeg	x		
Cloves			x
Coffee beans, flavored		x	
Coffee beans, unflavored	x		
Honey, pure	x		
Ice cream	x		

	Resistant	Limited Resistance	Not Resistant
Marinades	x		
Meat and fish	x		
Pepper, cinnamon, onions	x		
Salt	x		
Gases and Vapors			
Ammonia	x		
Bromine vapor (dry)		x	
Carbon dioxide	x		
Carbon monoxide	x		
Chloride vapor (dry)		x	
Exhaust gases, containing HCl	x		
Exhaust gases, containing HF	x		
Exhaust gases, containing H_2SO_4	x		
Hydrogen sulphide	x		
Methane	x		
Nitric oxide	x		
Oxygen	x		
Ozone	x		
Sulphur dioxide (dry)	x		
Natural gas (butane)	x		
Beverages and Liquids			
Beer, wine	x		
Camomile extract	x		
Chocolate	x		
Coffee, tea	x		
Fruit juice, milk	x		
Nail polish			x
Nail polish remover			x
Peat water	x		
Sea water	x		
Soaps	x		
Spirits, to 30%	x		
Sprays		x	
Vinegar	x		
Water, mineral water	x		

	Resistant	Limited Resistance	Not Resistant
Cleaning Agents			
Acids - see under chemicals			
Alcohol, absolute			x
Alcohol, to 30%	x		
Alkalis - see under chemicals			
Ammonia	x		
Carbon tetrachloride			x
Methylated spirits			x
Paraffin		x	
Perchloroethylene			x
Petrol, pure	x		
Petrol mixture, containing benzene			x
Petroleum ether	x		
Soap solution	x		
Soda solution	x		
Solvent stain removers			x
Trichloroethylene			x
Turpentine		x	
Turpentine substitute		x	
Pest Control Agents			
Aqueous solutions of pesticides		x	
Protective (strippable) Coatings			
Grip Mask® *	x		
Sign Strip® ** strippable masking		x	
Miscellaneous			
Urine	x		

The information on this chart can be used for ACRYLITE® GP and ACRYLITE® FF acrylic sheet. ACRYLITE FF sheet is dissolved faster by solvents than ACRYLITE GP sheet. All information is based on 72°F (23°C) test temperature and stress free material. The practical performance depends on usage temperatures and actual stresses. If you are not sure about your application, please call CYRO's Technical Service Department.

*Trademark of Akzo Nobel Coating, Inc., Louisville, KY **Trademark of Spraylat Corp., Mt. Vernon, NY

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Technical Service
For more information or specific questions about your project, contact CYRO's Technical Service Representatives.

CYRO Industries
For the name of your local Authorized Distributor, call 800-631-5384.

We invite you to visit our TechKnowlogy Center on www.cyro.com.

Visitors have immediate access to frequently asked questions, technical concerns, physical properties, processing conditions, fabrication tips, regulatory compliance information, engineering guidelines, tips for troubleshooting, and hundreds of other facts about acrylics from one of North America's leading manufacturers of acrylic-based polymer and sheet products.

CYRO.COM TECH KNOWLOGY CLICK HERE CENTER

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