



INSTRUCTIONS 1008-G00 e

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CHEMICAL COMPATIBILITY OF TVP



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Your distributor :

CHEMICAL COMPATIBILITY OF TVP



HIGH PERFORMANCE PEEK™ POLYMERS

VICTREX® PEEK™ POLYMER

CHEMICAL RESISTANCE

CHEMICAL	73°F (23°C)	212°F (100°C)	392°F (200°C)
ACIDS			
Acetic Acid, 10% Conc.	A	A	
Acetic Acid, Conc.	A	A	A
Acetic Acid, Glacial	A	A	
Acrylic Acid	A	A	
Aqua Regia	C	C	C
Benzene Sulfonic Acid	C		
Benzoic Acid	A	A	
Boric Acid	A	A	
Carbolic Acid	A		
Carbonic Acid	A	A	
Chloroacetic Acid	A	A	
Chlorosulfonic Acid	C	C	C
Chromic Acid, 40% Conc.	A		
Chromic Acid, Conc.	C	C	C
Citric Acid	A	A	
Formic Acid	B	B	
Hydrobromic Acid	C	C	C
Hydrochloric Acid, 10% Conc.	A	A	
Hydrochloric Acid, Conc.	A	B	
Hydrocyanic Acid	A	A	
Hydrofluoric Acid, 40% Conc.	C	C	C
Lactic Acid	A	A	
Maleic Acid	A	A	
Nitric Acid, 10% Conc.	A	A	
Nitric Acid, 30% Conc.	B		
Nitric Acid, 50% Conc.	C	C	C
Nitric Acid, Conc.	C	C	C
Nitrous Acid, 10%	A		
Oleic Acid	A		
Oleum	C	C	C
Oxalic Acid	A	A	
Perchloric Acid	A	A	
Phosphoric Acid, 10% Conc.	A	A	A
Phosphoric Acid, 50% Conc.	A	A	A
Phosphoric Acid, 80% Conc.	A	A	
Phthalic Acid	A	A	
Picric Acid	A	A	
Silicic Acid	A	A	
Sulfuric Acid, <40% Conc.	B	B	B
Sulfuric Acid, >40% Conc.	C	C	C
Sulfurous Acid	A	A	
Tannic Acid, 10% Conc.	A	A	
Tartaric Acid	A	A	
Trifluoromethyl Sulfonic Acid	C	C	C

CHEMICAL	73°F (23°C)	212°F (100°C)	392°F (200°C)
ALCOHOLS			
Benzyl Alcohol	A		
Butanol	A		
Cyclohexanol	A		
Ethanol	A	A	
Ethylene Glycol	A	A	B
Ethylene Glycol, 50% Conc.	A	A	A
Glycerol	A		
Gylcols	A	A	
Isopropanol	A		
Methanol	A	A	
Propanol	A		
ALDEHYDES/KETONES			
Acetaldehyde	A	A	
Acetone	A	A	
Benzaldehyde	A		
Cyclohexanone	A		
Formaldehyde	A	A	
Formalin	A		
Ketones	A		
Methylethyl Ketone (MEK)	A	B	C
N-Methyl-2-Pyrrolidone (NMP)	A		
BASES			
Ammonia 880	A		
Ammonia Anhydrous	A	A	A
Ammonia Liquid	A	A	A
Ammonium Hydroxide, 10% Conc.	A		
Ammonium Hydroxide, Conc.	A		
Calcium Hydroxide	A		
Hydrazine	A	A	
Hydroxides	A		
Magnesium Hydroxide	A		
Potassium Hydroxide, 10% Conc.	A		
Potassium Hydroxide, 70% Conc.	A		
Sodium Hydroxide, 10% Conc.	A	A	A
Sodium Hydroxide, 50% Conc.	A	A	A
Sodium Hydroxide, Conc.	A		
ESTERS			
Aliphatic Esters	A	A	
Amyl Acetate	A	A	
Butyl Acetate	A		
Dibutyl Phthalate	A		
Dimethyl Phthalate	A		
Diocetyl Phthalate	A		
Ethyl Acetate	A		

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CHEMICAL COMPATIBILITY OF TVP (continued)

VICTREX® PEEK™ POLYMER

CHEMICAL	73°F (23°C)	212°F (100°C)	392°F (200°C)	CHEMICAL	73°F (23°C)	212°F (100°C)	392°F (200°C)
ESTERS (cont.)				HYDROCARBONS (cont.)			
Oils (Di-Ester and Phosphate Ester Based)	A	A		Kerosene	A		
ETHERS				Lubricating Oil	A		
Diethylether	A	A		Methane (Gas)	A	A	A
Dioxane	A			Motor Oil	A	A	A
Ether	A	A		Naphtha	A	A	
Ethylene Oxide (EtO)	A			Naphthalene	A	A	
Tetrahydrofuran (THF)	A			Oils (Petroleum)	A	A	
HALOGENATED ORGANICS				Oils (Vegetable)	A	A	
1,1,1 Trichloroethane (Genklene*)	A			Pentane	A		
1,2 Dichloroethane	A			Petroleum Ether	A		
Carbon Tetrachloride	A	A		Propane	A		
Chorobenzene	A	A		Skydrol* Hydraulic Fluid	A		
Chloroform	A	A		Styrene (Liquid)	A		
Dibromoethane	A			Toluene	A		
Dichlorobenzene	A			Transformer Oil	A	A	
Dichloroethane	A			Vaseline*	A		
Ethylene Dichloride	A			Xylene	A		
Freon* 11 Trichlorofluoromethane	A			INORGANICS			
Freon 113 Trichlorotrifluoroethane	A			Aluminum Chloride	A	A	
Freon 114 1,1 Dichloro 1,2,2,2 Tetrafluoroethane	A			Aluminum Sulfate	A	A	
Freon 12 Dichlorodifluoromethane	A			Alum, Saturated	A	A	
Freon 22 Chlorodifluoromethane	A	A		Ammonium Chloride, 10% Conc.	A	A	
Freon 134a	A			Ammonium Nitrate	A	A	
Freon 502	A	A		Antimony Trichloride	A	A	
Methylene Chloride	A			Barium Salts (Chloride, Sulfide)	A		
Perchloroethylene	A	A		Bleach	A	A	
Trichloroethylene	A	A		Brine	A	A	
HYDROCARBONS				Bromine	C	C	C
Acetylene	A	A		Bromine (Dry)	C	C	C
Aromatic Solvents	A	A		Bromine (Wet)	C	C	C
Aviation Hydraulic Fluid	A			Bromine Water, Saturated	A	A	
Benzene	A	A		Calcium Bisulfide	A	A	
Brake Fluid (Mineral)	A	A	A	Calcium Carbonate	A		
Brake Fluid (Polyglycol)	A	A	A	Calcium Chloride	A	A	
Butane	A			Calcium Hypochlorite	A	A	
Crude Oil	A			Calcium Nitrate	A		
Cyclohexane	A	A		Calcium Sulfate	A	A	
Diesel Oil	A			Carbon Dioxide (Dry)	A		
Dowtherm* A			C	Carbon Monoxide (Gas)	A	A	A
Dowtherm G			B	Chlorine	C	C	C
Dowtherm HT			B	Copper Acetate	A	A	
Dowtherm LF			B	Copper Carbonate	A	A	
Ethane	A			Copper Chloride	A	A	
Fuel Oil	A			Copper Cyanide	A	A	
Gas (Manufactured)	A			Copper Fluoride	A	A	
Gas (Natural)	A			Copper Nitrate	A	A	
Gasoline	A	A		Copper Sulfate	A	A	
Heptane	A			Cupric Fluoride	A	A	
Hexane	A			Cupric Sulfate	A	A	
Hydraulic Fluid	A			Cuprous Chloride	A	A	
Iso-Octane	A			Ethylene Nitrate	A		
				Ferric Chloride	B	B	
				Ferric Nitrate	A		
				Ferric Oxide	A	A	

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INORGANICS (cont.)				INORGANICS (cont.)			
Ferric Sulfate	A			Sodium Sulfite	A	A	
Ferrous Chloride	A			Sodium (Hot)	C	C	C
Ferrous Nitrate	A			Stannic Chloride	A	A	
Ferrous Sulfate	A	A		Stannous Chloride	A	A	
Fluorine	C	C	C	Steam	A	A	A
Hydrogen Peroxide	A	A		Sulfites	A	A	
Hydrogen Sulfide (Gas)	A	A	A	Sulfur	A	A	
Iodine	B			Sulfur Chloride	A	A	
Lead Acetate	A	A		Sulfur Dichloride	A	A	
Lime	A	A		Sulfur Dioxide	A	A	A
Magnesium Chloride	A	A		Sulfur Hexafluoride (Gas)	A		
Magnesium Sulfate	A	A		Sulfur Trioxide	A	A	
Mercuric Chloride	A	A		Tar	A		
Mercurous Chloride	A			Tetraethyl Lead	A		
Mercury	A	A		Water, Distilled	A	A	
Nickel Acetate	A	A		Water	A	A	A
Nickel Chloride	A	A		Water, Sea/Salt	A	A	
Nickel Nitrate	A	A		Zinc Chloride	A	A	
Nickel Salts	A			Zinc Sulfate	A	A	
Nickel Sulfate	A	A		MISCELLANEOUS			
Nitrogen	A			Adhesives (not cyanoacrylates)	A		
Nitrous Oxide	A			Apple Juice	A		
Oxygen	A			Aviation Spirit	A		
Ozone	A	B		Beer	A	A	
Phosphorous Chlorides	A	A		Cooking Oil	A		
Phosphorous Pentoxide	A	A		Creosote	A		
Potassium Aluminum Sulfate	A	A		Detergent Solutions (non-phenolic)	A	A	
Potassium Bicarbonate	A			Edible Fats & Oils	A		
Potassium Bromide	A	A		Fatty Acids	A	A	
Potassium Carbonate	A			Fruit Juice	A	A	
Potassium Chlorate	A	A		Gelatin	A	A	
Potassium Chloride	A	A		Ketchup	A		
Potassium Dichromate	A			Linseed Oil	A		
Potassium Ferricyanide	A			Milk	A	A	
Potassium Ferrocyanide	A			Mineral Oil	A		
Potassium Hydroxide	A	A		Molasses	A	A	
Potassium Nitrate	A	A		Olive Oil	A	A	
Potassium Permanganate	A			Peanut Oil	A	A	
Potassium Sulfate	A	A		Paraffin	A	A	
Potassium Sulfide	A			Sewage	A	A	
Silicone Fluids	A	A		Soap Solution	A		
Silver Nitrate	A	A		Starch	A	A	
Sodium Acetate	A			Tallow	A	A	
Sodium Bicarbonate	A			Turpentine	A		
Sodium Carbonate	A	A		Urea	A	A	
Sodium Chlorate	A	A		Varnish	A		
Sodium Chloride	A	A		Vinegar	A	A	
Sodium Hypochlorite	A	A		Wax	A		
Sodium Nitrate	A	A		White Spirit	A		
Sodium Nitrite	A			Wines and Spirits	A		
Sodium Peroxide	A	A		Yeast	A	A	
Sodium Salts	A						
Sodium Silicate	A	A					
Sodium Sulfate	A	A					
Sodium Sulfide	A	A					

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CHEMICAL COMPATIBILITY OF TVP (continued)



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CHEMICAL	73°F (23°C)	212°F (100°C)	392°F (200°C)
ORGANO-NITROGENS			
Acetonitrile	A		
Aniline	A	B	
Dimethyl Formamide (DMF)	A		
Diethylamine	A		
Nitrobenzene	A		C
Pyridine	A	A	
PHENOLS			
Phenol (Conc.)	C	C	C
Phenol (Dilute)	A		
SULFUR COMPOUNDS			
Carbon Disulfide	A	A	
Dimethylsulfoxide (DMSO)	B	B	
Diphenylsulfone (DPS)	B	C	C
Ethylene Sulfate	A		

KEY

- A —No attack. Little or no absorption.
- B —Slight attack. Satisfactory use of VICTREX PEEK will depend on the application.
- C —Severe attack. VICTREX PEEK should not be used for any application where these chemicals are present.

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