Z-Polymers

TULLOMER™ | Chemical Resistance Data

PASS Rating: <2% change in weight & dimension | <5% change in mechanical properties

Chemical / Medium	Test Condition (Time / Temp)	Rating
ACIDS		
Acetic Acid (100%)	20 days / 118°C	PASS
Chromic Acid (50%)	90 days / 50°C	PASS
	180 days / 50°C	PASS
Chromic Acid (70%)	30 days / 88°C	PASS
Formic Acid (80%)	30 days / 104°C	PASS
	270 days / 104°C	PASS
	455 days / 104°C	PASS
Hydrochloric Acid (37%)	30 days / 88°C	PASS
	120 days / 88°C	—
Hydrofluoric Acid (anhydrous)	30 days / 23°C	PASS
Monochloroacetic Acid	180 days / 50°C	PASS
Nitric Acid (50%)	120 days / 23°C	PASS
	60 days / 70°C	PASS
Sulfuric Acid (50%)	180 days / 88°C	PASS
BASES & ALKALIS		
Sodium Hydroxide (5%)	90 days / 23°C	PASS
	180 days / 23°C	PASS
	30 days / 70°C	PASS
Sodium Hydroxide (10%)	90 days / 23°C	PASS
	180 days / 23°C	PASS
BRAKE FLUIDS		
Castrol 988C	30 days / 122°C	PASS
FUELS		
Fuel C (ASTM D471)	30 days / 171°C	PASS
Gasoline	30 days / 121°C	PASS
Lead-Free Gasoline	30 days / 121°C	PASS
GASES & HALOGENS		
Chlorine Gas	180 days / 23°C	PASS
Chlorine Water (saturated solution)	180 days / 23°C	PASS
Hydrogen Chloride (anhydrous)	30 days / 23°C	PASS
OILS		
Engine Oil 10W-30	30 days / 121°C	PASS
Hydraulic Oil	30 days / 71°C	PASS
Silicone Oil	30 days / 200°C	PASS

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Chemical / Medium	Test Condition (Time / Temp)	Rating
ORGANIC SOLVENTS & COMPOUNDS		
Acetone	180 days / 56°C	**PASS**
Dimethyl Formamide (DMF)	180 days / 66°C	**PASS**
Diphenyl Carbonate	10 days / 250°C	**PASS**
Diphenylamine	180 days / 66°C	**PASS**
Ethanol	30 days / 52°C	**PASS**
Ethyl Acrylate	80 days / 77°C	**PASS**
Ethylene Diamine	30 days / 100°C	**PASS**
	180 days / 23°C	**PASS**
Hexafluoro-isopropanol	10 days / 25°C	**PASS**
Iso-Octane	14 days / 60°C	**PASS**
Methanol	30 days / 64°C	**PASS**
Methylene Chloride	180 days / 40°C	**PASS**
Nitrobenzene	30 days / 66°C	**PASS**
Nitroglycerine	30 days / 66°C	**PASS**
Pentafluorophenol	10 days / 60°C	—
Phenol	100 days / 100°C	—
Toluene	180 days / 11°C	**PASS**
Trichloroethane	90 days / 66°C	**PASS**
REFRIGERANTS		
Refrigerant R-22	30 days / 80°C	**PASS**
Refrigerant R-113	180 days / 47°C	**PASS**
SPECIALTY FLUIDS		
Ethylene Glycol (Antifreeze/Water)	30 days / 50°C	**PASS**
	30 days / 121°C	**PASS**
Fluorinert FC-70	1 day / 215°C	**PASS**
WATER		
Water	10 days / 121°C	**PASS**

— = No rating assigned for this condition. All tests conducted per internal Tullomer™ standard protocol.