RÖCHLING
Engineered Plastics

Polystone® M
Chemical properties

Chemical Resistance	Polystone® M (UHMW-PE)		Polystone® M (UHMW-PE)
Acetaldehyde	+	Glycerine	+
Acetic acid	+	Hydrochloric acid	+
Acetone	+	Hydrogen peroxide	+
Acrylonitrile	+	Hydrogen sulphide	+
Allyl alcohol	96+	Lactic acid	+
Aluminum chloride	A+	Magnesium chloride	A+
Ammonia	A+	Mercury	+
Ammonium chloride	A+	Methanol	+
Aniline	+	Methyl ethyl ketone	+
Benzaldehyde	+	Methylene chloride	/
Benzene	/	Mineral oil	+
Benzyl alcohol	+	Motor oil	+
Bleach (Chlorine)	-	Nitric acid	+to/
Boric acid	A+	Nitobenzene	+
Butanol	+	Oleic acid	+
Butyl acetate	+	Ozone	/
Calcium chloride	+	Perchloric acid	50+
Carbon disulphide	/	Petroleum	+
Carbon tetrachloride	/M-	Phenol	+
Chlorine gas	/	Phosphoric acid	+
Chlorobenzene	/	Potassium chromate	40+
Chloroform	/M-	Potassium hydroxide	30+
Chromic acid	10+	Potassium nitrate	+
Citric acid	+	Potassium permanganate	+
Cyclohexanol	+	Pyridine	+
Cyclohexanone	+	Sea water	+
Dekalin	+	Sodium carbonate	10+
Dibutyl phthalate	+	Sodium chloride	10+
Diesel fuel	+	Sodium hydroxide	60+
Diethyl ether	+to/	Sulphuric acid	75+
Dioxane	+	Tallow	+
Ethanol	96+	Tetrahydrofurane	+M-
Ethyl acetate	+	Tetralin	+
Ethylene chloride	/	Thionyl chloride	-
Ethylene diamine	+	Toluene	/
Ferric chloride	A+	Transformer oil	+
Fluorine	-	Trichlorethylene	+M-
Formaldehyde	40+	Urea, aqueous	33+
Formic acid	+	Water	+
Furfurol	+	Zinc chloride	A+

Values obtained at room temperature. Call for high or low temperature applications.
Number indicates concentration if < 100%. M= Values may change under mechanical stress
G=Gaseous state. A=Aqueous solution. S=Soluble.

+= Specimen is resistant.....Swelling <3% or weight loss <0.5%. Break elongation not significantly altered.
/= Specimen has limited resistance...Swelling 3-8% or weight loss 0.5-5% and/or break elongation decreased by <50%
-= Specimen is not resistant.....Swelling > 8% or weight loss > 5% and/or break elongation decreased by >50%

East
Röchling Engineered Plastics, P.O. Box 2729, Gastonia, NC 28053
(800) 541-4419, Fax: (704) 922-7651, Email rep@roechling-plastics.us

West
Röchling Engineered Plastics, 2040 Carlos Avenue, Ontario, CA 91761
(800) 545-5177, Fax: (909) 923-3280, Email rep@roechling-plastics.us

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