

Chevron Phillips Marlex® HXB TR-512 Extra high molecular weight polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), UHMW PE Ultra High Molecular Weight

Material Notes:

Benefits: outstanding impact and creep resistance, excellent ESCR, excellent chemical resistance
 Characteristics: ESCR > 700 at Condition A, at 50°C; ASTM D 1693
 Applications: 55-gallon drums, industrial tanks
 Information provided by Chevron Phillips Chemical Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-HXB-TR-512-Extra-high-molecular-weight-polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	Condition B; ASTM D 1693
High Load Melt Index	5.5 g/10 min @Load 21.6 kg, Temperature 190 °C	5.5 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638 Type IV
Elongation at Break	>= 600 %	>= 600 %	ASTM D638 Type IV
Flexural Modulus	1.345 GPa	195.1 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	193 - 210 °C	379 - 410 °F	stock temperature

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