

Chevron Phillips Marlex® HXM 50100 Extra high molecular weight hexene copolymer

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

Material Notes:

Benefits: excellent balance of stress cracking resistance, good melt strength, excellent stress cracking resistance, good rigidity, excellent impact strength even at low temperatures
Applications: 55-gallon shipping containers, gasoline tanks, agricultural chemical tanks, pallets, cattle feeders, large formed parts, boats
Information provided by Chevron Phillips Chemical Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-HXM-50100-Extra-high-molecular-weight-hexene-copolymer.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 600 hour @Temperature 50.0 °C	>= 600 hour @Temperature 122 °F	Condition A and Condition B; ASTM D 1693
High Load Melt Index	10 g/10 min @Load 21.6 kg, Temperature 190 °C	10 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	ASTM D638 Type IV
Elongation at Break	>= 600 %	>= 600 %	ASTM D638 Type IV
Flexural Modulus	1.172 GPa	170.0 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -91.0 °C	<= -132 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	154 - 182 °C	309 - 360 °F	Thermoforming Surface
	188 - 232 °C	370 - 450 °F	Blow Molding
	232 - 268 °C	450 - 514 °F	Extrusion

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