

Chevron Phillips Marlex® CL-200YJN (Natural) Rotational molding crosslinkable high density polyethylene (disc)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Crosslinkable

Material Notes:

Benefits: crosslinks during molding - has outstanding melt strength at 204°C, is formulated to provide maximum UV protection for long-term outdoor weathering, contains an internal mold release, excellent stress cracking resistance to gasoline and other chemicals, outstanding impact strength at temperatures as low as -40°C

Characteristics: 100 J at 3 mm Impact Strength (-40°C); ARM Test Method, 260 J at 3 mm Impact Strength (-40°C); ARM Test Method

Applications: industrial and agricultural chemical storage tanks, small engine, snowmobile, and marine fuel tanks, seats

Information provided by Chevron Phillips Chemical Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-CL-200YJN-Natural-Rotational-molding-crosslinkable-high-density-polyethylene-nbsdisc.php

Physical Properties	Metric	English	Comments
Density	0.941 g/cc	0.0340 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	Condition A; ASTM D 1693

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	18.0 MPa	2610 psi	ASTM D638 Type IV
Elongation at Break	450 %	450 %	ASTM D638 Type IV
Flexural Modulus	0.690 GPa	100 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	124 °C	255 °F	ASTM D1525
Brittleness Temperature	<= -90.0 °C	<= -130 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	246 - 326 °C	475 - 619 °F	oven temperature for hot air machines 246-326°C, marlex crosslinkable resins require special handling during processing

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