

Chevron Phillips Marlex® K608 HDPE Extrusion Molding Resin

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

Material Notes:

Resin Type: Ethylene Homopolymer
Characteristics: Good ESCRExceptional RigidityExcellent melt strengthGood whiteness in unpigmented parts
Applications: Table topsNursery containersDunnage traysLarge totes
Information provided by Chevron Phillips.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-K608-HDPE-Extrusion-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ASTM D1505
ESCR 100% Igepal®	35 hour	35 hour	Condition B; ASTM D1693
	60 hour	60 hour	Condition A; ASTM D1693
Melt Flow	11.5 g/10 min	11.5 g/10 min	Condition 190/21.6, HLMI; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66.5	66.5	ASTM D2240
Tensile Strength, Yield	31.0 MPa	4500 psi	2 in/min, Type IV bar; ASTM D638
Elongation at Break	950 %	950 %	2 in/min, Type IV bar; ASTM D638
Flexural Modulus	1.55 GPa	225 ksi	Tangent, 16:1 span:depth,0.5in/min; ASTM D790
Tensile Impact Strength	220 kJ/m ²	105 ft-lb/in ²	Type S bar; ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	Method A; ASTM D648
Vicat Softening Point	121 °C	250 °F	Loading 1, Rate A; ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	Type A, type 1 specimen; ASTM D746

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