

Chevron Phillips Marlex® 9512H - 9513H High Performance Series HDPE Blow Molding Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

Resin Type: linear copolymer
Characteristics: excellent physical properties, medium molecular weight distribution, wide range of processing conditions, good flow for injection blow molding applications, good parison uniformity, good trimability. Federal specification LP390C
Classification Type I, Class H, Grades (1-5), Category 5. Meets FDA Regulation 21CFR 177.1520. Some restrictions apply when containing an antistatic additive.
Applications: household and industrial chemicals, food packaging, personal care products, coolers, ice chests, sheet and vacuum forming, oil bottles
Burn rate < 5 cm/min.
Information provided by Chevron Phillips Chemical Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-9512H-9513H-High-Performance-Series-HDPE-Blow-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D1505
Apparent Bulk Density	0.590 g/cc	0.0213 lb/in ³	ASTM D1895
Melt Flow	0.32 g/10 min @Load 2.16 kg, Temperature 190 °C	0.32 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength, Yield	29.6 MPa	4290 psi	ASTM D638
Elongation at Break	>= 500 %	>= 500 %	ASTM D638
Flexural Modulus	1.24 GPa	180 ksi	1% Secant; ASTM D 790
Tensile Impact Strength	95.0 kJ/m ²	45.2 ft-lb/in ²	S bar; ASTM D 1822

Thermal Properties	Metric	English	Comments
Vicat Softening Point	126 °C	259 °F	ASTM D1525
Brittleness Temperature	<= -100 °C	<= -148 °F	ASTM D746

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