

**Chevron Phillips Marlex® C516 HDPE Blow Molding Resin (discontinued \*\*)**

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

**Material Notes:**

Resin Type: Hexene Copolymer  
 Characteristics: Outstanding impact resistance Outstanding creep resistance Excellent ESCR Excellent chemical resistance Excellent melt stability  
 Applications: 55 gallon drums Industrial tanks  
 Information provided by Chevron Phillips.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chevron-Phillips-Marlex-C516-HDPE-Blow-Molding-Resin-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-C516-HDPE-Blow-Molding-Resin-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in <sup>3</sup>	ASTM D1505
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	Conditions A and B; ASTM D1693
Melt Flow	5.5 g/10 min	5.5 g/10 min	Condition 190/2.16, HLMI; ASTM D1505

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength, Yield	29.0 MPa	4210 psi	2 in/min, Type IV bar; ASTM D638
Elongation at Break	800 %	800 %	2 in/min, Type IV bar; ASTM D638
Flexural Modulus	1.31 GPa	190 ksi	Tangent, 16:1 span:depth, 0.5 in/min; ASTM D790
Tensile Impact Strength	450 kJ/m <sup>2</sup>	214 ft-lb/in <sup>2</sup>	Type S bar; ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	74.0 °C	165 °F	Method A; ASTM D648
Vicat Softening Point	126 °C	259 °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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