

## Chevron Phillips Marlex® 9018 HDPE Injection Molding Resin

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

**Material Notes:**

Resin Type: Linear Copolymer, ASTM D 4976 Classification: PE 232, A 53600 Characteristics: Good Flow, Good Impact Strength, Good Stiffness, Good ESCR, Good Shrinkage Resistance Applications: Housewares, Automotive, Tamper Evident Screw Caps for Milk Bottles, Pails (1-2 gallon), Toys, Small Containers for Building Compounds Data provided by Chevron Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chevron-Phillips-Marlex-9018-HDPE-Injection-Molding-Resin.php](http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-9018-HDPE-Injection-Molding-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in <sup>3</sup>	ASTM D1505
Apparent Bulk Density	0.590 g/cc	0.0213 lb/in <sup>3</sup>	ASTM D1895
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 190 °C	20 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238
High Load Melt Index	520 g/10 min @Load 21.6 kg, Temperature 190 °C	520 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.7 MPa	3580 psi	ASTM D638
Elongation at Break	300 %	300 %	ASTM D638
Flexural Modulus	0.970 GPa	141 ksi	3 pt. secant; ASTM D790
	1.24 GPa	180 ksi	3 pt. Tangent; ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	122 °C	252 °F	ASTM D1525
Brittleness Temperature	<= -71.0 °C	<= -95.8 °F	ASTM D746

## Contact Songhan Plastic Technology Co.,Ltd.

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