

Chevron Phillips Marlex® 9004 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 233, A 56700 Characteristics: Moderate Flow, Excellent Impact Strength, Good Stiffness, Excellent ESCR, Moderate Shrinkage Resistance Applications: Industrial Pails (5 gallon), Pail/Drum Lids Data provided by Chevron Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-9004-HDPE-Injection-Molding-Resin.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|-------------|
| Density | 0.953 g/cc | 0.0344 lb/in ³ | ASTM D1505 |
| Apparent Bulk Density | 0.590 g/cc | 0.0213 lb/in ³ | ASTM D1895 |
| Melt Flow | 4.5 g/10 min @Load 2.16 kg, Temperature 190 °C | 4.5 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D 1238 |
| High Load Melt Index | 117 g/10 min @Load 21.6 kg, Temperature 190 °C | 117 g/10 min @Load 47.6 lb, Temperature 374 °F | ASTM D 1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|----------|--------------------------|
| Tensile Strength, Yield | 26.9 MPa | 3900 psi | ASTM D638 |
| Elongation at Break | 900 % | 900 % | ASTM D638 |
| Flexural Modulus | 1.03 GPa | 149 ksi | 3 pt. secant; ASTM D790 |
| | 1.28 GPa | 186 ksi | 3 pt. Tangent; ASTM D790 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|-------------|-------------|------------|
| Vicat Softening Point | 125 °C | 257 °F | ASTM D1525 |
| Brittleness Temperature | <= -71.0 °C | <= -95.8 °F | ASTM D746 |

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