

Chevron Phillips Marlex® 9503HF 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: outstanding ESCR, excellent impact resistance, medium molecular weight distribution, wide range of processing conditions, high melt strength, good parison uniformity, good trimming characteristics. 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: hard to hold chemicals, household-industrial chemical containers, detergents
 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-9503HF-High-Performance-Series-HDPE-Blow-Molding-Resin.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|---|------------|
| Density | 0.946 g/cc | 0.0342 lb/in ³ | ASTM D1505 |
| Apparent Bulk Density | 0.590 g/cc | 0.0213 lb/in ³ | ASTM D1895 |
| Melt Flow | 0.27 g/10 min @Load 2.16 kg, Temperature 190 °C | 0.27 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------------------|----------------------------|-----------------------|
| Hardness, Shore D | 65 | 65 | ASTM D2240 |
| Tensile Strength, Yield | 24.8 MPa | 3600 psi | ASTM D638 |
| Elongation at Break | >= 500 % | >= 500 % | ASTM D638 |
| Flexural Modulus | 0.900 GPa | 131 ksi | 1% Secant; ASTM D 790 |
| Tensile Impact Strength | 135 kJ/m ² | 64.2 ft-lb/in ² | S bar; ASTM D 1822 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|-------------|------------|------------|
| Vicat Softening Point | 123 °C | 253 °F | ASTM D1525 |
| Brittleness Temperature | <= -75.0 °C | <= -103 °F | ASTM D746 |

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