

Chevron Phillips Marlex® C579 High density polyethylene (discontinued **)

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

Material Notes:

Benefits: outstanding impact and creep resistance, excellent ESCR, excellent chemical resistance
 Applications: multi-layer fuel tanks, mono-layer fuel tanks, industrial bulk containers
 Information provided by Chevron Phillips Chemical Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-C579-High-density-polyethylene-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------------------------|--|--|--|
| Density | 0.945 g/cc | 0.0341 lb/in ³ | ASTM D1505 |
| Environmental Stress Crack Resistance | >= 2000 hour @Temperature 50.0 °C | >= 2000 hour @Temperature 122 °F | Condition A and Condition B; ASTM D 1693 |
| High Load Melt Index | 5.0 g/10 min @Load 21.6 kg, Temperature 190 °C | 5.0 g/10 min @Load 47.6 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|----------|-------------------|
| Hardness, Shore D | 66 | 66 | |
| Tensile Strength, Yield | 22.0 MPa | 3190 psi | ASTM D638 Type IV |
| Elongation at Break | >= 600 % | >= 600 % | ASTM D638 Type IV |
| Flexural Modulus | 1.10 GPa | 160 ksi | ASTM D790 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|-----------|-----------|------------|
| Vicat Softening Point | 127.22 °C | 261.00 °F | ASTM D1525 |
| Brittleness Temperature | -79.0 °C | -110 °F | ASTM D746 |

| Processing Properties | Metric | English | Comments |
|------------------------|--------------|--------------|--------------|
| Processing Temperature | 193 - 221 °C | 379 - 430 °F | Blow Molding |

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