

Chevron Phillips Marlex® 4538A

Resin Type: Homopolymer

Characteristics: High Melt Strength, Good Parison Control, Good Stability, Low Taste and Odor Characteristics, Good Impact and Toughness, Good Clarity on Gloss, Long Standing in the Pharmaceutical Industry

Physical Properties	Metric	English	Comments
Density	0.925 g/cc	0.0334 lb/in ³	ASTM D1505

Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238
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Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	17.0 MPa	2470 psi	2 in/min, Type IV bar; ASTM D638

Elongation at Break	600 %	600 %	2 in/min, Type IV bar; ASTM D638
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Flexural Modulus	0.340 GPa	49.3 ksi	Tangent - 16:1 span:depth, 0.5 in/min; ASTM D790
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Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -75.0 °C	<= -103 °F	Type A, Type I specimen; ASTM D746