

Chevron Phillips Marlex® 1009

Resin Type: Homopolymer
 Characteristics:
 • Excellent flexibility

Physical Properties	Metric	English	Comments
Density	0.917 g/cc	0.0331 lb/in³	ASTM D1505

Melt Index of Compound 16 g/10 min 16 g/10 min Condition 190/2.16; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	46	46	ASTM D2240

Tensile Strength, Yield 9.00 MPa 1310 psi 2 in/min, Type IV bar; ASTM D638

Elongation at Break	500 %	500 %	2 in/min, Type IV bar; ASTM D638
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Flexural Modulus 0.200 GPa 29.0 ksi Tangent, 16:1 span:depth, 0.5 in/min; ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	85.0 °C	185 °F	Loading 1, Rate A; ASTM D1525

Brittleness Temperature -54.0 °C -65.2 °F Type A, type 1 specimen; ASTM D746