

Chevron Phillips Marlex® 9005

Resin Type: Hexene Copolymer

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ASTM D1505
ESCR 100% Igepal®	90 hour	90 hour	Condition B; ASTM D1693
Melt Index of Compound	6.0 g/10 min	6.0 g/10 min	Condition 190/21.6, HLMI; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM D2240
Tensile Strength, Yield	23.0 MPa	3340 psi	2 in/min, Type IV bar; ASTM D638
Elongation at Break	1000 %	1000 %	2 in/min, Type IV bar; ASTM D638
Flexural Modulus	1.07 GPa	155 ksi	Tangent, 16:1 span:depth, 0.5in/min; ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	121 °C	250 °F	Loading 1, Rate A; ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	Type A, type 1 specimen; ASTM D746