

Chevron Phillips Marlex® 9503H

Resin Type: Hexene Copolymer

Physical Properties	Metric	English	Comments
Density	0.946 g/cc	0.0342 lb/in ³	ASTM D1505
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	Conditions A and B; ASTM D1693
Melt Index of Compound	0.31 g/10 min	0.31 g/10 min	Condition 190/2.16; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.0 MPa	3480 psi	2 in/min, Type IV bar; ASTM D638
Elongation at Break	500 %	500 %	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
Brittleness Temperature	<= -75.0 °C	<= -103 °F	Type A clamp, type 1 specimen; ASTM D746