

Chevron Phillips Marlex[®] 7104

This linear low density, high molecular weight hexene copolymer is tailored for sheet and geomembrane applications that require: Outstanding ESCR
 • Good melt strength

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D1505
ESCR 100% Igepal®	>= 2000 hour	>= 2000 hour	ASTM D1693
ESCR 10% Igepal®	>= 2000 hour	>= 2000 hour	ASTM D1693
Oxidative Induction Time (OIT)	>= 100 min	>= 100 min	ASTM D3895
Melt Index of Compound	0.35 g/10 min	0.35 g/10 min	Condition 190/2.16; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51	51	ASTM D2240
Tensile Strength, Yield	11.0 MPa	1600 psi	2 in/min, Type IV bar; ASTM D638
Elongation at Break	700 %	700 %	2 in/min, Type IV bar; ASTM D638
Flexural Modulus	0.410 GPa	59.5 ksi	ASTM D790
Tensile Impact Strength	NB	NB	Type S bar; ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	51.0 °C	124 °F	ASTM D648
Vicat Softening Point	100 °C	212 °F	Loading 1, Rate A; ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	Type A, type 1 specimen; ASTM D746

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	See notes for details.

Descriptive Properties			
SP-NCTL	Min 1000		Single-point notched constant tensile load