

Chevron Phillips Marlex® 5104

This autoclave, low density, ethylene homopolymer is tailored for blow molded applications that require:
Good impact resistance

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in³	ASTM D1505

Melt Flow	1.3 g/10 min @Load 2.16 kg, Temperature 190 °C	1.3 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	16.0 MPa	2320 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

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