

Chevron Phillips Marlex® 1412

This autoclave LDPE homopolymer is tailored for applications that require:

- Good flexibility
- Excellent flow

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ASTM D1505

Melt Flow	35 g/10 min @Load 2.16 kg, Temperature 190 °C	35 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238
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Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ASTM D2240

Tensile Strength, Yield	11.0 MPa	1600 psi	2 in/min, Type IV bar; ASTM D638
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Elongation at Break	150 %	150 %	2 in/min, Type IV bar; ASTM D638
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Flexural Modulus	0.330 GPa	47.9 ksi	Tangent - 16:1 span:depth, 0.5 in/min; ASTM D790
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	92.0 °C	198 °F	Loading 1, Rate A; ASTM D1525

Brittleness Temperature	-42.0 °C	-43.6 °F	Type A, Type I specimen; ASTM D746
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Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	See notes for details.