

Chevron Phillips Marlex® C100 Polyethylene; Enhanced

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

Material Notes:

Metallocene linear low density polyethylene. This linear low density, hexene copolymer is tailored for blow molded containers that require:

High gloss Good clarity Excellent ESCR Applications: Typical blow molded applications for C100 include: Glossy multilayer

bottles Squeezable bottles Information provided by Phillips This resin meets these specifications: ASTM D4976 - PE 214 FDA 21 CFR

177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-C100-Polyethylene-Enhanced.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D-1505
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	Condition A, F50; ASTM D-1693
	>= 1000 hour	>= 1000 hour	Condition B, F50; ASTM D-1693
Melt Flow	1.2 g/10 min	1.2 g/10 min	ASTM D-1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	10.0 MPa	1450 psi	2 in/min, Type IV bar; ASTM D-638
Elongation at Break	600 %	600 %	2 in/min, Type IV bar; ASTM D-638
Flexural Modulus	0.310 GPa	45.0 ksi	Tangent - 16:1 span:depth, 0.5 in/min; ASTM D-790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -75.0 °C	<= -103 °F	Type A, Type I specimen; ASTM D-746

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