

## Chevron Phillips Marlex® C300 Polyethylene; Enhanced

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

**Material Notes:**

Metallocene medium density polyethylene. This metallocene MDPE resin is tailored for blow molded containers that require: High glossGood clarityExcellent ESCR Applications: Typical blow molded applications for C300 include: Glossy multilayer bottlesSqueezable bottlesInformation provided by PhillipsThis resin meets these specifications: ASTM D4976 - PE 224FDA 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-C300-Polyethylene-Enhanced.php](http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-C300-Polyethylene-Enhanced.php)

Physical Properties	Metric	English	Comments
Density	0.933 g/cc	0.0337 lb/in <sup>3</sup>	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 Index of Compound	0.90 g/10 min @Load 2.16 kg, Temperature 190 °C	0.90 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	18.0 MPa	2610 psi	2 in/min, Type IV bar; ASTM D-638
Elongation at Break	800 %	800 %	2 in/min, Type IV bar; ASTM D-638
Flexural Modulus	0.720 GPa	104 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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