

Chevron Phillips Marlex® C513UV High Density Polyethylene, Blow Molding

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

This extra high molecular weight, hexane copolymer is tailored for intermediate bulk container applications that require: Outstanding impact resistance Outstanding ESCR Excellent processability UV stabilization Typical applications for C513UV include blow molded items such as: Intermediate bulk containers Agricultural containers This resin meets these specifications: ASTM D4976 - PE 235 FDA 21 CFR 177.1520(c) 3.1a, use conditions C through G per 21 CFR 176.170(c). Volume of food containing article must be equal to or greater than 5 gallons. Information provided by Chevron Phillips Chemical Company LP.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-C513UV-High-Density-Polyethylene-Blow-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.945 g/cc	0.945 g/cc	ASTM D1505
ESCR 100% Igepal®	>= 2000 hour	>= 2000 hour	Condition A, F50; ASTM D1693
	>= 2000 hour	>= 2000 hour	Condition B, F50; ASTM D1693
Melt Flow	5.5 g/10 min	5.5 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ASTM D2240
Tensile Strength, Yield	24.0 MPa	3480 psi	2 in/min, Type IV bar; ASTM D638
Elongation at Break	700 %	700 %	2 in/min, Type IV bar; ASTM D638
Flexural Modulus	1.07 GPa	155 ksi	Tangent; ASTM D790
Tensile Impact Strength	580 kJ/m²	276 ft-lb/in²	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	66.0 °C	151 °F	ASTM D648
Vicat Softening Point	123 °C	253 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	Type A clamp, Type I Specimen; ASTM D746

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