

Chevron Phillips Marlex® HMN TR-945/945G Polyethylene; HDPE

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

Material Notes:

High density polyethylene. These hexene copolymers are tailored for rotational molding applications that require: Wide process windows and excellent flow Long-term UV stabilization Good impact strength High modulus Fair ESCR These resins are available in: Pellet form - HMN TR-945 35 US mesh powder - HMN TR-945G Applications: High modulus parts - e.g. Ductwork Large tanks Information provided by Phillips These resins meet the following specifications: ASTM D4976 - PE 233 FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c) Table 2. Single use articles contacting food types I, II, IV-B, VI-A, VI-B, VII-B, and VIII. Repeated use articles contacting all food types defined in 21 CFR 176.170(c) Table 1.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-HMN-TR-945945G-Polyethylene-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ASTM D-1505
ESCR 100% Igepal®	70 hour	70 hour	Condition A, F50; ASTM D-1693
ESCR 10% Igepal®	25 hour	25 hour	Condition A, F50; ASTM D-1693
Melt Index of Compound	6.0 g/10 min @Load 2.16 kg, Temperature 190 °C	6.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	ASTM D-2240
Tensile Strength, Yield	20.0 MPa	2900 psi	2 in/min, Type IV bar; ASTM D-638
Elongation at Break	460 %	460 %	2 in/min, Type IV bar; ASTM D-638
Flexural Modulus	0.740 GPa	107 ksi	2% Secant - 16:1 span:depth, 0.5 in/min; ASTM D-790
	0.910 GPa	132 ksi	Tangent - 16:1 span:depth, 0.5 in/min; ASTM D-790
Impact Test	92.0 J @Thickness 3.17 mm, Temperature -40.0 °C	67.9 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	ARM Impact
	224 J @Thickness 6.35 mm, Temperature -40.0 °C	165 ft-lb @Thickness 0.250 in, Temperature -40.0 °F	ARM Impact

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	130 °C Metric	266 °F English	ASTM D-3418 Comments
Crystallization Temperature	113 °C	235 °F	ASTM D-3418
Deflection Temperature at 0.46 MPa (66 psi)	64.0 °C	147 °F	Method A; ASTM D-648
Deflection Temperature at 1.8 MPa (264 psi)	44.0 °C	111 °F	Method A; ASTM D-648
Vicat Softening Point	118 °C	244 °F	Loading 1, Rate A; ASTM D-1525
Brittleness Temperature	-75.0 °C	-103 °F	Type A, Type I specimen; ASTM D-746

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