

Chevron Phillips Marlex® HMN TR-935/935G Polyethylene; MDPE

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

Material Notes:

Medium density polyethylene. These hexene copolymers are tailored for rotational molding applications that require: Wide process windows and excellent flow Long-term UV stabilization Excellent impact strength Excellent ESCR These resins are available in: Pellet form - HMN TR-935 35 mesh powder - HMN TR-935G Applications: Recreational and agricultural equipment Toys and carts Information provided by Phillips These resins meet the following specifications: ASTM D4976 - PE 223 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-935935G-Polyethylene-MDPE.php

Physical Properties	Metric	English	Comments
Density	0.936 g/cc	0.0338 lb/in ³	ASTM D-1505
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	Condition A, F50; ASTM D-1693
ESCR 10% Igepal®	130 hour	130 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	59	59	ASTM D-2240
Tensile Strength, Yield	17.0 MPa	2470 psi	2 in/min, Type IV bar; ASTM D-638
Elongation at Break	750 %	750 %	2 in/min, Type IV bar; ASTM D-638
Flexural Modulus	0.620 GPa	89.9 ksi	2% Secant - 16:1 span:depth, 0.5 in/min; ASTM D-790
	0.760 GPa	110 ksi	Tangent - 16:1 span:depth, 0.5 in/min; ASTM D-790
Impact Test	102 J @Thickness 3.17 mm, Temperature -40.0 °C	75.2 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	ARM Impact
	237 J @Thickness 6.35 mm, Temperature -40.0 °C	175 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	128 °C Metric	262 °F English	ASTM D-3418 Comments
Crystallization Temperature	112 °C	234 °F	ASTM D-3418
Deflection Temperature at 0.46 MPa (66 psi)	58.0 °C	136 °F	Method A; ASTM D-648
Deflection Temperature at 1.8 MPa (264 psi)	41.0 °C	106 °F	Method A; ASTM D-648
Vicat Softening Point	110 °C	230 °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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