

NOVA Chemicals Novapol® TR-0535-UI Hexene MDPE Rotational Molding Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Rotational Molded

Material Notes:

TR-0530-UI complies with the U.S. FDA specifications for olefin polymers and may be used in the U.S. as an article or component of an article intended for use in contact with food. TR-0530-UI is subject to the specific limitations that it may contain food only in articles having a volume of at least 18.9 L (5 gal. U.S.), only at temperatures of 150°F and below, and may not be used to hold ready-prepared foods intended to be reheated in the container at time of use. It is biologically and chemically inert. Features: Excellent low temperature impact properties, Excellent ESCR, Wide process window, Retention of impact @ long cook times, NSF listed for Stds. 24 & 61, UL 94 HB Additives: Processing antioxidants, UV stabilizers Applications: IBCs, Toys, General Purpose custom molding, Agricultural storage tanks, Marine parts

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-TR-0535-UI-Hexene-MDPE-Rotational-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in ³	ASTM D 792
ESCR 100% Igepal®	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	Bent Strip, Condition A & B, F50 values, From compression molded samples; ASTM D 1693
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 190 °C	5.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	17.5 MPa @Thickness 1.91 mm	2540 psi @Thickness 0.0750 in	Type IV specimen, 2" per minute test speed, compression molded sample; ASTM D 638
Elongation at Yield	12 % @Thickness 1.91 mm	12 % @Thickness 0.0750 in	Type IV specimen, 2" per minute test speed, compression molded sample; ASTM D 648
Flexural Modulus	0.680 GPa	98.6 ksi	1% Strain Value, From compression molded samples; ASTM D 790
Impact Test	67.8 J @Thickness 3.17 mm, Temperature -40.0 °C	50.0 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	Rotomolded samples; ARM Method
	217 J @Thickness 0.250 mm, Temperature -40.0 °C	160 ft-lb @Thickness 0.00984 in, Temperature -40.0 °F	Rotomolded samples; ARM Method

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	125 °C Metric	257 °F English	ASTM E 794 Comments
Deflection Temperature at 0.46 MPa (66 psi)	58.0 °C	136 °F	ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	42.0 °C	108 °F	ASTM D 648

Processing Properties	Metric	English	Comments
Melt Temperature	204 - 315 °C	399 - 599 °F	Recommended oven temperature

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