

NOVA Chemicals Novapol® TR-0535-UG Hexene MDPE Rotational Molding Resin (discontinued **)

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

Material Notes:

Molded Plaque Properties. Features: excellent impact strength, excellent ESCR.Applications: large parts, agricultural storage tanks.Data provided by the manufacturer.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in ³	ASTM D792
Apparent Bulk Density	0.610 g/cc	0.0220 lb/in ³	
Environmental Stress Crack Resistance	>= 1000 hour	>= 1000 hour	F50, Condition B, ASTM D1693, 100% Igepal
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 D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	27.2 MPa	3950 psi	ASTM D638
Tensile Strength, Yield	17.3 MPa	2510 psi	ASTM D638
Elongation at Break	1500 %	1500 %	ASTM D638
Elongation at Yield	17.4 %	17.4 %	ASTM D638
Flexural Modulus	0.610 GPa	88.5 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm @Thickness 3.20 mm	0.993 ft-lb/in @Thickness 0.126 in	ASTM D256
Tensile Impact Strength	163 kJ/m ²	77.6 ft-lb/in ²	0.3 cm notched sample; ASTM D1822

Thermal Properties	Metric	English	Comments
Melting Point	128 °C	262 °F	ASTM D3417
Crystallization Temperature	112 °C	234 °F	ASTM D3417
Deflection Temperature at 0.46 MPa (66 psi)	60.0 °C	140 °F	ASTM D1525
Vicat Softening Point			ASTM D1525

Thermal Properties	113 °C Metric	235 °F English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	204 - 315 °C	399 - 599 °F	

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