

NOVA Chemicals Novapol® TR-0338-U MDPE Rotational Molding Resin (discontinued **)

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

Material Notes:

Molded Plaque Properties. Features: Hexene Copolymer, 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-0338-U-MDPE-Rotational-Molding-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.938 g/cc	0.0339 lb/in³	ASTM D792
Environmental Stress Crack Resistance	>= 1000 hour	>= 1000 hour	F50, Condition A, ASTM D1693, 100% Igepal
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 190 °C	3.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	29.1 MPa	4220 psi	ASTM D638
Tensile Strength, Yield	20.6 MPa	2990 psi	ASTM D638
Elongation at Break	1000 %	1000 %	ASTM D638
Elongation at Yield	12 %	12 %	ASTM D638
Flexural Modulus	0.702 GPa	102 ksi	ASTM D790
Izod Impact, Notched	1.82 J/cm @Thickness 3.20 mm	3.41 ft-lb/in @Thickness 0.126 in	ASTM D256
Tensile Impact Strength	145 kJ/m²	69.0 ft-lb/in²	ASTM D1822

Thermal Properties	Metric	English	Comments
Melting Point	129 °C	264 °F	ASTM D3417
Crystallization Temperature	114 °C	237 °F	ASTM D3417
Deflection Temperature at 0.46 MPa (66 psi)	58.0 °C	136 °F	ASTM D1525
Vicat Softening Point	122 °C	252 °F	ASTM D1525

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