

NOVA Chemicals Novapol® TR-0242-U MDPE Rotational Molding Resin (discontinued **)

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

Material Notes:

Hexene copolymer, Excellent impact, Excellent ESCR
 Applications: Large parts, Agricultural storage tanks
 Additives: Processing antioxidants, UV stabilizers
 Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-TR-0242-U-MDPE-Rotational-Molding-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.942 g/cc	0.0340 lb/in ³	ASTM D792
ESCR 100% Igepal®	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	F ₅₀ ; Condition A, From compression molded specimens; ASTM D1693
Melt Flow	1.8 g/10 min @Load 2.16 kg, Temperature 190 °C	1.8 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	22.3 MPa @Thickness 3.17 mm	3230 psi @Thickness 0.125 in	Type IV specimen, 2" per minute test speed, rotomolded samples; ASTM D638
Flexural Modulus	0.970 GPa	141 ksi	1% Strain Value from rotomolded samples; ASTM D790
Impact Test	81.0 J @Thickness 3.17 mm, Temperature -40.0 °C	59.7 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	rotomolded; ARM Method
	244 J @Thickness 6.35 mm, Temperature -40.0 °C	180 ft-lb @Thickness 0.250 in, Temperature -40.0 °F	rotomolded; ARM Method

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	50.0 °C	122 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	39.0 °C	102 °F	ASTM D648

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