

NOVA Chemicals Surpass® RMs244-U Octene sHDPE Rotational Molding Film

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Rotational Molding Grade

Material Notes:

Features: Octene copolymer
Exceptional low temperature properties
Outstanding stiffness
Broad processing window
Superior whiteness for improved part appearance
Easy mold release
NSF listed for Standards 14, 24 and 61
Applications: Custom Industrial parts
Storage tanks
Marine products
Materials handling containers
Information provided by Nova Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Surpass-RMs244-U-Octene-sHDPE-Rotational-Molding-Film.php

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in³	Compression Molded; ASTM D792
ESCR 10% Igepal®	200 hour	200 hour	Compression Molded; ARM Method
Melt Flow	1.7 g/10 min @Load 2.16 kg, Temperature 190 °C	1.7 g/10 min @Load 4.76 lb, Temperature 374 °F	Compression Molded; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.4 MPa	3390 psi	Compression Molded; ASTM D638
	23.5 MPa	3410 psi	Rotational Molded; ASTM D882
Flexural Modulus	0.950 GPa	138 ksi	Rotational Molded; ASTM D790
	0.980 GPa	142 ksi	Compression Molded; ASTM D790
Impact Test	217 J @Thickness 6.35 mm	160 ft-lb @Thickness 0.250 in	Compression Molded; ARM Method

Thermal Properties	Metric	English	Comments
Melting Point	129.4 °C	264.9 °F	Compression Molded; ASTM E794
Deflection Temperature at 0.46 MPa (66 psi)	66.0 °C	151 °F	Compression Molded; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	44.0 °C	111 °F	Compression Molded; ASTM D648

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