

NOVA Chemicals Surpass® RMs539-UG Octene sMDPE Rotational Molding Film

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

Material Notes:

Features: Octene copolymerExceptional low temperature impact propertiesOutstanding stiffnessBroad processing windowSuperior whiteness for improved part appearanceEasy mold releaseNSF listed for Standards 14, 24 and 61 Low viscosity for exceptional processability, shorter cycle times, and energy savings Applications: OEM custom and proprietary components Recreational and leisure equipment Marine productsContainers, septic tanks, and fish boxesInformation provided by Nova Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Surpass-RMs539-UG-Octene-sMDPE-Rotational-Molding-Film.php

Physical Properties	Metric	English	Comments
Density	0.939 g/cc	0.0339 lb/in ³	Compression Molded; ASTM D792
Environmental Stress Crack Resistance	40 - 50 hour	40 - 50 hour	CTL, Compression Molded; ARM Method
	>= 1000 hour	>= 1000 hour	Bent Strip, Compression Molded; ASTM D1693
Melt Flow	5.2 g/10 min @Load 2.16 kg, Temperature 190 °C	5.2 g/10 min @Load 4.76 lb, Temperature 374 °F	Compression Molded; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	Compression Molded; ASTM D2240
Tensile Strength, Ultimate	27.1 MPa	3930 psi	Compression Molded; ASTM D638
Tensile Strength, Yield	20.0 MPa	2900 psi	Compression Molded; ASTM D638
Elongation at Break	920 %	920 %	Compression Molded; ASTM D638
Elongation at Yield	11 %	11 %	Compression Molded; ASTM D638
Flexural Modulus	0.740 GPa	107 ksi	Compression Molded; ASTM D790
Impact Test	27.0 J @Thickness 3.17 mm, Temperature -40.0 °C	19.9 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	Rotational Molded, Instrumented
	54.0 J @Thickness 3.17 mm, Temperature -40.0 °C	39.8 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	Rotational Molded; ARM Method
	108 J	79.7 ft-lb	Rotational Molded, Instrumented

Mechanical Properties	Metric @Thickness 3.17 mm, Temperature -40.0 °C	English @Thickness 0.125 in, Temperature -40.0 °F	Comments
	230 J	170 ft-lb	Rotational Molded; ARM Method
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	125 °C	257 °F	Compression Molded; ASTM E794
Deflection Temperature at 0.46 MPa (66 psi)	60.0 °C	140 °F	Compression Molded; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	42.0 °C	108 °F	Compression Molded; ASTM D648
Vicat Softening Point	121 °C	250 °F	Compression Molded; ASTM D1525

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