

## NOVA Chemicals Surpass® RMs539-U Octene sMDPE Rotational Molding Film

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

### Material Notes:

Features: Octene copolymer Exceptional low temperature impact properties Outstanding stiffness Broad processing window Superior whiteness for improved part appearance Easy mold release NSF 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 products Containers, septic tanks, and fish boxes Information provided by Nova Chemicals

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NOVA-Chemicals-Surpass-RMs539-U-Octene-sMDPE-Rotational-Molding-Film.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Surpass-RMs539-U-Octene-sMDPE-Rotational-Molding-Film.php)

Physical Properties	Metric	English	Comments
Density	0.939 g/cc	0.0339 lb/in <sup>3</sup>	Compression Molded; ASTM D792
ESCR 10% Igepal®	>= 50 hour	>= 50 hour	Compression Molded; ARM Method
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 @Thickness 3.17 mm, Temperature -40.0 °C	79.7 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	Rotational Molded, Instrumented
	230 J	170 ft-lb	Rotational Molded; ARM Method

Mechanical Properties	@Thickness 3.17 mm, Metric Temperature -40.0 °C	@Thickness 0.125 in, English Temperature -40.0 °F	Comments
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
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

## Contact Songhan Plastic Technology Co.,Ltd.

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