

## NOVA Chemicals Surpass® RMs341-U Octene sHDPE Rotational Molding Resin

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

### Material Notes:

RMs341-U complies with the U.S. FDA regulations for olefin polymers and may thus be used in the United States as an article or component of an article intended for use in contact with food. RMs341-U is subject to the specific limitation that it may contact food only at temperatures of 212°F and below. NOVA Chemicals' polyethylene resins are biologically and chemically inert. Features: Octene copolymer, Exceptional low temperature impact properties, Broad processing window, Low viscosity for exceptional processability yielding shorter cycle times and energy savings, Superior whiteness for improved part appearance, Easy mold release, NSF listed for standards 24, 51 and 61, UL 94 HB. Additives: Processing antioxidants, UV stabilizers. Applications: OEM custom and proprietary components, Recreational and leisure equipment, Containers, Septic tanks, Fish boxes, Large tanks

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NOVA-Chemicals-Surpass-RMs341-U-Octene-sHDPE-Rotational-Molding-Resin.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Surpass-RMs341-U-Octene-sHDPE-Rotational-Molding-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.941 g/cc	0.0340 lb/in <sup>3</sup>	ASTM D 792
ESCR 100% Igepal®	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	Bent Strip, Condition B, F50 Values from compression molded samples; ASTM D 1693
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 D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.2 MPa	2930 psi	Type IV specimen, 2" per minute test speed, 0.075" thickness compression molded samples; ASTM D 638
Elongation at Yield	12 %	12 %	Type IV specimen, 2" per minute test speed, 0.075" thickness compression molded samples; ASTM D 638
Flexural Modulus, 1% Secant	827 MPa	120000 psi	From compression molded samples; ASTM D 790
Impact Test	95.0 J @Thickness 3.17 mm, Temperature -40.0 °C	70.1 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	ARM Low Temperature Impact on Rotomolded samples; ARM Method
	230 J @Thickness 6.35 mm, Temperature -40.0 °C	170 ft-lb @Thickness 0.250 in, Temperature -40.0 °F	ARM Low Temperature Impact on Rotomolded samples; ARM Method

Thermal Properties	Metric	English	Comments
Melting Point	126 °C	259 °F	ASTM E 794

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	62.0 °C	144 °F	ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	43.0 °C	109 °F	ASTM D 648

## Contact Songhan Plastic Technology Co.,Ltd.

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