



# SURPASS<sup>®</sup> RMs245-U(UG) Resin

## Octene Copolymer HDPE Rotational Molding Resin



Property	ASTM <sup>(1)</sup>	Typical Values <sup>(2)</sup>	
Melt Index	<sup>(3)</sup> D 1238	1.7 g/10 min	
Density	D 792	0.945 g/cm <sup>3</sup>	
		METRIC UNITS	ENGLISH UNITS
Melting Point (DSC)		127 °C	261 °F
Flexural Modulus	<sup>(4)</sup> D 790	1,030 MPa	149,400 psi
Yield Strength	<sup>(5)</sup> D 638	23 MPa	3,300 psi
Elongation at Yield	<sup>(5)</sup> D 638	11 %	11 %
ESCR, (F <sub>50</sub> )	<sup>(6)</sup> D 1693	> 1 000 h	
Heat Distortion Temperature			
- 66 psi (4.64 kg/cm <sup>2</sup> )	D 648	63 °C	145 °F
- 264 psi (18.56 kg/cm <sup>2</sup> )	D 648	43 °C	109 °F
ARM Low Temperature Impact <sup>(7)</sup>			
- 0.125" (3.17 mm)	ARM Method	75 J	55 ft-lb
- 0.250" (6.35 mm)	ARM Method	> 245 J	> 180 ft-lb

**Melt Index 1.7**
**Density 0.945**

### Features

- Exceptional low temperature impact properties
- Broad processing window
- High stiffness for very large tanks, combined with exceptional ESCR performance
- Superior whiteness for improved part appearance, resistant to gas fading
- NSF listed for Standards #24, 51, 61
- Broad application use and potential for resin consolidation
- Good interior finish on large tanks
- UL 94 HB
- HDB rating 1600 psi

### Additives

- Processing antioxidant
- UV stabilizers (>UV 22)

### Applications

- Septic tanks
- Very large tanks (up to 20,000 gallons)
- Agricultural tanks as small as 3,000 gallons

(1) Properties designated have been determined using methods which are in accordance with, or substantially in accordance with, the specified testing standards.

(2) Typical Values represent average laboratory values and are intended as guides only, not as specifications.

(3) Condition 190°C/2.16 kg.

(4) 1% Strain Value. From compression molded samples.

(5) Type IV specimen, 2" (50.8 mm) per minute test speed, 0.075" (1.9 mm) thickness compression molded samples.

(6) Condition A & B, 100% IGEPAL, 50°C, F50 values. From compression molded specimens.

(7) -40°C on rotomolded samples.



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### Availability

SURPASS RMs245-U(UG) polyethylene resins are available in bulk hopper cars, hopper trucks, boxes, sea bulk containers, or bags. The product type and batch number are clearly marked on each container. Contact the NOVA Chemicals sales office nearest you for availability in your area.

### Storage/Handling

SURPASS RMs245-U(UG) resin should be stored in a clean, dry place at ambient temperatures. Prolonged or improper storage can result in deterioration of product properties. Care should be taken when handling and transferring product to prevent foreign matter contamination. The NOVA Chemicals Safety Data Sheet (SDS) contains important safety information and should be reviewed before using the product.

### Processing Conditions

Comprehensive assistance with processing conditions and technology is available from NOVA Chemicals Technical Service at (403) 291-8444.

### Food Packaging Status

United States: SURPASS RMs245-U(UG) complies with the specifications contained in the FDA regulation 21 CFR 177.1520 for olefin polymers, para. (c) 3.2a, and may thus be used in the United States as an article or component of an article intended for use in contact with food. The resin is subject to the specific limitation that it may contact fatty and high-alcohol foods (21 CFR 176.170(c), Table 1, food types III, IV-A, V, VI-C, VII-A and IX) only at temperatures of 212°F and below (21 CFR 176.170(c) Table 2, conditions of use B–H). The resin may contact other food types (I, II, IV-B, VI-A, VI-B, VII-B and VIII) under conditions of use A–H.

Other Countries: For regulatory compliance information for other countries, please contact your nearest NOVA Chemicals office.

SURPASS RMs245-U(UG) resin is Certified by NSF to NSF/ANSI Standards #24, #51, and #61. In addition:

- the production facility is audited annually to assure that only authorized materials are used in the product;
- quality assurance and quality control procedures are followed in fabrication, and all the requirements of the standard continue to be met;
- products are sampled and retested on schedule; and
- labeling and product literature are true and accurate with respect to the NSF listed products.

### Environmental

NOVA Chemicals polyethylene resins are biologically and chemically inert, but improper disposal may present an ingestion hazard to wildlife. Where recycling of NOVA Chemicals' polyethylene resins is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended. Please contact NOVA Chemicals Technical Service for further information on recycling and disposal of NOVA Chemicals resins.



is the SPI resin code developed for high density polyethylene to identify material type for sorting and recycling purposes.



NSF has listed SURPASS RMs245-U(UG) for conformity with ANSI/NSF Standards 24, 51 and 61.

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