

## Octene sHDPE Rotational Molding Resin

### RM s244-U/UG

**Melt Index** 1.7

**Density** 0.944

#### 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

#### Additives

- Processing antioxidants
- UV stabilizers (resin is designed for 8000 h of weatherometer exposure)

#### Applications

- Custom industrial parts
- Storage tanks
- Marine products
- Material handling containers

Properties	ASTM (1)	Typical Values (2)	
		Compression Molded	Rotational Molded
<b>Melt Index</b> <sup>(3)</sup>	D 1238	1.7 g/10 min	—
<b>Density</b>	D 792	0.944 g/cm <sup>3</sup>	—
<b>Flexural Modulus</b> <sup>(4)</sup>	D 790	950 MPa (137 790 psi)	—
<b>Tensile Yield Strength</b> <sup>(5)</sup>	D 638	23.4 MPa (3 400 psi)	—
<b>Melting Point</b>	E 794	129.4 °C (265°F)	—
<b>Heat Distortion Temperature</b>			
<b>66 psi (4.64 kg/cm<sup>2</sup>)</b>	D 648	66°C (151°F)	—
<b>264 psi (18.56 kg/cm<sup>2</sup>)</b>	D 648	44°C (111°F)	—
<b>ARM Low Temperature Impact</b> <sup>(6)</sup>			
<b>0.250" (6.35 mm)</b>	ARM Method	—	217 J (160 ft-lb)

(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.

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

(6) -40°C.

RMs244-U/UG – sHDPE

SURPASS®

**Availability**

**SURPASS 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**

RMs244-U/UG 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 Material Safety Data Sheet (MSDS)** 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.



NSF has listed RMs244-U/UG for conformity with ANSI/NSF standards 14, 24, and 61.

**Food Packaging Status**

**United States:** RMs244-U and RMs244-UG comply with the specifications contained in the U.S. Food and Drug Administration (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. RMs244-U and RMs244-UG are subject to the specific limitation that they may contact food only at temperatures of 212°F and below (21 CFR 176.170(c) Table 2, conditions of use B–H).

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

**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.



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

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