



RM539-U(UG)

Octene Copolymer sLLDPE Rotational Molding Resin

PROPERTIES	ASTM ⁽¹⁾	UNITS	TYPICAL VALUES ⁽²⁾
Melt Index ⁽³⁾	D 1238	g/10 min	5.2
Density	D 792	g/cm ³	0.939
ESCR, (F ₅₀) ⁽⁴⁾	D 1693	h	> 1 000
Flexural Modulus ⁽⁵⁾	D 790	MPa (psi)	780 (113 100)
Tensile Yield Strength ⁽⁶⁾	D 638	MPa (psi)	20.0 (2 900)
Elongation at Yield ⁽⁶⁾	D 638	%	13
Melting Point (DSC)		°C (°F)	125 (257)
Heat Distortion Temperature			
- 66 psi (4.64 kg/cm ²)	D 648	°C (°F)	60 (140)
- 264 psi (18.56 kg/cm ²)	D 648	°C (°F)	42 (108)
ARM Low Temperature Impact ⁽⁷⁾			
- 0.125" (3.17 mm)	ARM Method	J (ft-lb)	54 (40)
- 0.250" (6.35 mm)	ARM Method	J (ft-lb)	230 (170)

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

(5) 1% Strain Value. From compression molded samples.

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

(7) -40°C on rotomolded samples

Melt Index 5.2

Density 0.939

FEATURES

- Exceptional low temperature impact properties
- Outstanding stiffness
- Broad processing window
- Low viscosity for exceptional processability, shorter cycle times, and energy savings
- Superior whiteness for improved part appearance
- Easy mold release
- NSF listed for Standards #24, #51, & #61
- UL 94 HB

ADDITIVES

- Processing antioxidants
- UV stabilizers

APPLICATIONS

- OEM custom and proprietary components
- Recreational and leisure equipment
- Containers, septic tanks and fish boxes
- Marine products

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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

RMs539-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.

FOOD PACKAGING STATUS

United States: RMs539-U(UG) complies 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. RMs539-U(UG) is subject to the specific limitations that it may contact food only at temperatures of 212°F and below (21 CFR 176.170(c), Table 2, conditions of use B–H), and that finished articles must have a volume greater than 5 gal. U.S. (18.9 L) when contacting fatty foods (21 CFR 176.170(c), Table 1, food types III, IV-A, V, VII-A and IX).

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

RMs539-U(UG) 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 low density and linear low density polyethylene to identify material type for sorting and recycling purposes.

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