

PRODUCT DATA SHEET

SURPASS RMs341-U(UG) Resin

Octene Copolymer sHDPE Rotational Molding Resin

Availability

SURPASS RMs341-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 RMs341-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 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: SURPASS RMs341-U(UG) resin 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. This resin is subject to the specific limitation that it may contact food only at temperatures of 212°F and below (21 CFR 176.170(c) Table 2, conditions of use R-H).

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

SURPASS RMs341-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 RMs341-U(UG) for conformity with ANSI/NSF Standards 24, 51 and 61.

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polyethylene

NSF

SURPASS® RMs341-U(UG) Resin

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product data sheet

Property	ASTM ⁽¹⁾	Typical Values ⁽²⁾	
Melt Index ⁽³⁾	D 1238	3.5 g/10 min	
Density	D 792	0.941 g/cm ³	
		METRIC UNITS	ENGLISH UNITS
Melting Point (DSC)		126 °C	259 °F
Flexural Modulus	⁽⁴⁾ D 790	827 MPa	119,900 psi
Yield Strength	⁽⁵⁾ D 638	20.2 MPa	2,900 psi
Elongation at Yield	⁽⁵⁾ D 638	12 %	12 %
ESCR, (F ₅₀)	⁽⁶⁾ D 1693	> 1 000 h	
Heat Distortion Temperature			
- 66 psi (4.64 kg/cm ²)	D 648	62 °C	144 °F
- 264 psi (18.56 kg/cm ²)	D 648	43 °C	109 °F
ARM Low Temperature Impact	⁽⁷⁾		
- 0.125" (3.17 mm)	ARM Method	95 J	70 ft-lb
- 0.250" (6.35 mm)	ARM Method	230 J	170 ft-lb

Melt Index 3.5

Density 0.941

Features

- Exceptional low temperature impact properties
- 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 antioxidant
- UV stabilizer (estimated UV resistance >UV18)

Applications

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

- (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.