



NOVAPOL[®] TRx0735-U Resin

Hexene Copolymer MDPE Rotational Molding Resin



Property	ASTM ⁽¹⁾	Typical Values ⁽²⁾	
Melt Index	⁽³⁾ D 1238	7.0 g/10 min	
Density	D 792	0.935 g/cm ³	
		METRIC UNITS	ENGLISH UNITS
Melting Point (DSC)		125 °C	257 °F
Flexural Modulus	⁽⁴⁾ D 790	680 MPa	98,600 psi
Yield Strength	⁽⁵⁾ D 638	17.5 MPa	2,500 psi
Elongation at Yield	⁽⁵⁾ D 638	12 %	12 %
ESCR, (F ₅₀)	⁽⁶⁾ D 1693	> 1 000 h	
Heat Distortion Temperature	⁽⁷⁾		
- 66 psi (4.64 kg/cm ²)	D 648	58 °C	136 °F
- 264 psi (18.56 kg/cm ²)	D 648	42 °C	108 °F
ARM Low Temperature Impact	⁽⁸⁾		
- 0.125" (3.17 mm)	ARM Method	66 J	49 ft-lb
- 0.250" (6.35 mm)	ARM Method	238 J	176 ft-lb

Melt Index 7.0
Density 0.935

Features

- Faster cycle time
- Broadened process window
- Excellent low temperature impact properties
- Excellent ESCR
- Long cook time impact retention
- NSF listed for Standards #24, 51, 61
- UL 94 HB

Additives

- Processing antioxidant
- UV stabilizer (UV 20)

Applications

- IBCs
- Toys
- General purpose custom molding
- Agricultural storage tanks
- Marine parts

(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) Nominal dimensions of the HDT specimens: 5 inches in length, 0.5 inches in depth and 0.125 inches wide.

(8) -40°C on rotomolded samples.



NOVAPOL TRx0735-U Resin

Hexene Copolymer MDPE Rotational Molding Resin

Availability

NOVAPOL TRx0735-U 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

NOVAPOL TRx0735-U 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

For regulatory compliance information, please contact your nearest NOVA Chemicals office.

NOVAPOL TRx0735-U resin conforms to NSF/ANSI/CAN 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.



NOVAPOL TRx0735-U conforms to NSF/ANSI/CAN Standards 24, 51 and 61.

The NOVA Chemicals logo is a registered trademark of NOVA Brands Ltd.; authorized use/utilisation autorisée.
NOVAPOL® is a registered trademark of NOVA Brands Ltd.; authorized use/utilisation autorisée.

The above information is provided in good faith. NOVA Chemicals is not responsible for any processing or compounding which may occur to produce finished articles, packaging materials or their components. Further, NOVA CHEMICALS MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND, REGARDING THE INFORMATION GIVEN FOR THE PRODUCTS DESCRIBED, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES, REPRESENTATIONS AND CONDITIONS, INCLUDING WITHOUT LIMITATION ALL WARRANTIES AND CONDITIONS OF QUALITY, MERCHANTABILITY AND SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Responsibility for use, storage, handling and disposal of the products described herein is that of the purchaser or end user.

February 11, 2026