

polyethylene

NOVAPOL® TF-0438-E Resin

Hexene Copolymer LMDPE Film Resin



product data sheet

Property	ASTM	Typical Values	
Melt Index ⁽³⁾	D 1238	4.2 g/10 min	
Density	D 792	0.938 g/cm³	
		METRIC UNITS	ENGLISH UNITS
Film Properties⁽⁴⁾			
Thickness		20 µm	0.8 mil
Tear Strength	MD D 1922	19 g	
	TD	320 g	
Low Friction Puncture ⁽⁵⁾		3 J/mm	0.7 in-lb/mil
Tensile Strength	MD D 882	38 MPa	5,500 psi
	TD	26 MPa	3,800 psi
Yield Strength	MD D 882	15 MPa	2,200 psi
	TD	15 MPa	2,200 psi
Elongation	MD D 882	600 %	600 %
	TD	900 %	900 %
1% Secant Modulus	MD D 882	340 MPa	49,300 psi
	TD	430 MPa	62,400 psi
Haze	D 1003	3 %	3 %
Gloss @ 45°	D 2457	88	88

(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) Film properties are typical of cast film extruded at a melt temperature of 500°F, and a line speed of 800 ft/min.

(5) NOVA Chemicals test method.

Melt Index 4.2

Density 0.938

Slip None

Antiblock None

Features

- Excellent stiffness and gloss

Additives

- Enhanced processing antioxidant

Applications

- Blending
- Co-extruded films
- Cast film stiffener

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Availability

NOVAPOL TF-0438-E 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 TF-0438-E 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: NOVAPOL TF-0438-E 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, without food-type restrictions, under Conditions of Use A–H (21 CFR 176.170(c) Table 2).

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.



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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