

polyethylene

NOVAPOL® TF-Y534-IP Resin

Hexene Copolymer LMDPE Film Resin

product data sheet

Property	ASTM	Typical Values
Melt Index ⁽³⁾	D 1238	0.8 g/10 min
Density	D 792	0.934 g/cm ³
		METRIC UNITS ENGLISH UNITS

Melt Index 0.8

Density 0.934

Slip 450

Antiblock 900

Film Properties⁽⁴⁾

Thickness		25 µm	1.0 mil
Tear Strength	MD D 1922	118 g	
	TD	320 g	
Dart Drop Impact, F ₅₀	D 1709/A	80 g	
Low Friction Puncture ⁽⁵⁾		27 J/mm	6 in-lb/mil
Tensile Strength	MD D 882	46 MPa	6,700 psi
	TD	32 MPa	4,600 psi
Yield Strength	MD D 882	16 MPa	2,300 psi
	TD	18 MPa	2,600 psi
Elongation	MD D 882	580 %	580 %
	TD	780 %	780 %
1% Secant Modulus	MD D 882	370 MPa	53,700 psi
	TD	440 MPa	63,800 psi
Haze	D 1003	9 %	9 %
Gloss @ 45°	D 2457	63	63

Features

- Excellent stiffness
- Excellent puncture
- High strength and toughness

Additives

- Processing antioxidant
- Polymer process aid
- Antiblock
- Slip

Applications

- Industrial packaging
- Overwrap
- High clarity shrink film

(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 blown film extruded on a 2.5" extruder with 4" die and 35-mil die gap at a blow up ratio of 2.5:1, but are dependent upon operating conditions.

(5) NOVA Chemicals test method.

PRODUCT DATA SHEET

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Availability

NOVAPOL TF-Y534-IP 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-Y534-IP 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-Y534-IP 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)).


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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