

# polyethylene

## NOVAPOL® TD-9022 Series Resin

### Super Hexene Copolymer LLDPE Film Resins

**Grades**

TD-9022-C

TD-9022-D

**Additive Packages**

Antiblock (6000 ppm)

Slip (1502), Antiblock (6300 ppm)

**Applications**

Industrial liners, heavy duty sheeting, heavy duty packaging

Retail trash bags

product data sheet

Property	ASTM (1)	Typical Values(2) for TD-9022-C
Melt Index(3)	D 1238	0.80 g/10 min
Density	D 792	0.916 g/cm <sup>3</sup>
		METRIC UNITS      ENGLISH UNITS

**Melt Index 0.80**
**Density 0.916**
**Film Properties(4)**

Thickness		25 µm	1.0 mil
Tear Strength	MD D 1922	470 g	
	TD	600 g	
Dart Drop Impact, F <sub>50</sub>	D 1709/A	450 g	
Low Friction Puncture(5)		44 J/mm	10 in-lb/mil
Tensile Strength	MD D 882	47 MPa	6,800 psi
	TD	42 MPa	6,100 psi
Yield Strength	MD D 882	9 MPa	1,300 psi
	TD	9 MPa	1,300 psi
Elongation	MD D 882	450 %	450 %
	TD	820 %	820 %
1% Secant Modulus	MD D 882	180 MPa	26,100 psi
	TD	190 MPa	27,600 psi

**Features**

- Excellent dart impact
- High strength
- High toughness

**Common Additives**

- Processing antioxidant
- Antiblock

(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 100-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

# NOVAPOL TD-9022 Series Resin

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### Availability

NOVAPOL TD-9022 Series 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 TD-9022 Series 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 TD-9022 Series resin complies with the specifications contained in the U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.1520(c) for olefin polymers. For details, please contact your NOVA Chemicals Technical Service Specialist.

### 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.



4 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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