

polyethylene

NOVAPOL® TF-Y826 Series Resin

Hexene Copolymer LMDPE Film Resins



product data sheet

Grades

TF-Y826-CP
TF-Y826-D

Additive Packages

Antiblock (2500 ppm)
Slip (1280), Antiblock (3200 ppm)

Applications

Industrial bags, industrial packaging
Premium trash bags, bags-on-roll

Property	ASTM ⁽¹⁾	Typical Values ⁽²⁾ for TF-Y826-CP
Melt Index ⁽³⁾	D 1238	0.8 g/10 min
Density	D 792	0.926 g/cm ³
		METRIC UNITS ENGLISH UNITS

Film Properties⁽⁴⁾

Thickness		25 µm	1.0 mil
Tear Strength	MD D 1922	260 g	
	TD	580 g	
Dart Drop Impact, F ₅₀	D 1709/A	130 g	
Low Friction Puncture ⁽⁵⁾		38 J/mm	9 in-lb/mil
Tensile Strength	MD D 882	50 MPa	7,300 psi
	TD	43 MPa	6,200 psi
Yield Strength	MD D 882	13 MPa	1,900 psi
	TD	14 MPa	2,000 psi
Elongation	MD D 882	570 %	570 %
	TD	850 %	850 %
1% Secant Modulus	MD D 882	270 MPa	39,200 psi
	TD	310 MPa	45,000 psi
Haze	D 1003	12 %	12 %
Gloss @ 45°	D 2457	57	57

Melt Index 0.8

Density 0.926

Features

- Good stiffness
- High strength and 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 35-mil die gap at a blow up ratio of 2.5:1, but are dependent upon operating conditions.
- (5) NOVA Chemicals test method.

polyethylene

PRODUCT DATA SHEET

NOVAPOL TF-Y826 Series Resin

Hexene Copolymer LMDPE Film Resins

Availability

NOVAPOL TF-Y826 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 TF-Y826 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 TF-Y826 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.



is the SPI resin code developed for low density and linear low density polyethylene to identify material type for sorting and recycling purposes.

 **NOVA Chemicals** 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.

February 25, 2018



403.291.8444 | 800.222.7213 | info@novachem.com | www.novachemicals.com

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.