

# NOVAPOL® HF-Y450-A

High Density Polyethylene

NOVA Chemicals

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

NOVAPOL® HF-Y450-A is a High Density Polyethylene material. It is available in North America for blown film or film extrusion.

Important attributes of NOVAPOL® HF-Y450-A are:

- Antioxidant
- Food Contact Acceptable
- Hexene Comonomer
- High Stiffness
- High Strength

Typical applications include:

- Additive/Compounding/Masterbatch
- Bags/Liners
- Coating Applications
- Film
- Food Contact Applications

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">NOVA Chemicals</a> • <a href="#">NOVAPOL®</a>
Availability	• North America
Additive	• Antioxidant
Features	• Antioxidant • Food Contact Acceptable • Good Drawdown • Hexene Comonomer • High Density • High Stiffness • High Strength
Uses	• Bags • Blending • Film • Laminates
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.2a
Forms	• Pellets
Processing Method	• Blown Film • Film Extrusion

### Physical

	Nominal Value Unit	Test Method
Density / Specific Gravity	0.949 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40 g/10 min	ASTM D1238

### Films

	Nominal Value Unit	Test Method
Film Thickness - Tested	25 µm	
Secant Modulus		ASTM D882
1% Secant, MD : 25 µm, Blown Film	638 MPa	
1% Secant, TD : 25 µm, Blown Film	769 MPa	
Tensile Strength		ASTM D882
MD : Yield, 25 µm, Blown Film	22.0 MPa	
TD : Yield, 25 µm, Blown Film	24.0 MPa	
MD : Break, 25 µm, Blown Film	35.0 MPa	
TD : Break, 25 µm, Blown Film	33.0 MPa	
Tensile Elongation		ASTM D882
MD : Break, 25 µm, Blown Film	530 %	
TD : Break, 25 µm, Blown Film	890 %	
Dart Drop Impact (25 µm, Blown Film)	70 g	ASTM D1709A
Elmendorf Tear Strength		ASTM D1922
MD : 25 µm, Blown Film	13 g	
TD : 25 µm, Blown Film	480 g	



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## Additional Information

## Nominal Value Unit

Low Friction Puncture - Blown Film (25.0 µm)

570 J/cm

## Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.



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### Where to Buy

#### Supplier

##### NOVA Chemicals

Calgary, Calgary Canada

Telephone: 403-750-3600

Web: <http://www.novachemicals.com/>

#### Distributor

##### Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

##### M. Holland Canada Company

Telephone: 905-665-1168

Web: <http://www.mholland.com/>

Availability: Canada

##### M. Holland Company

Telephone: 855-497-1403

Web: <http://www.mholland.com/>

Availability: Mexico, United States

##### Nexeo Plastics

*Nexeo Plastics is leading global resin distributor with the technical resources you need to overcome material challenges. Visit us on the web at [www.nexeoplastics.com](http://www.nexeoplastics.com).*

Telephone: 833-446-3936

Web: <https://www.nexeoplastics.com/>

Availability: North America

##### Osterman & Company

Telephone: 800-914-4437

Web: <http://www.osterman-co.com/>

Availability: North America

