

NOVAPOL® HF-Y450-A

High Density Polyethylene

NOVA Chemicals

Message:

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
- High Stiffness
- High Strength
- Typical applications include:
 - Additive/Masterbatch
 - Bags/Liners
 - Coating Applications
 - Film
 - Food Contact Applications

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Drawdown		
	High Density		
	High Stiffness		
	High Strength		
Uses	Bags		
	Blending		
	Film		
	Laminates		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.949	g/cm ³	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	ASTM D882
Secant Modulus			
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	
Additional Information	Nominal Value	Unit	
Low Friction Puncture - Blown Film (25.0 µm)	570	J/cm	

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Recommended distributors for this material

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