

# NOVAPOL® LF-0219-A

Low Density Polyethylene

NOVA Chemicals

Message:

NOVAPOL® LF-0219-A is a low density polyethylene material. This product is available in North America and is processed by film extrusion.

NOVAPOL® The main features of the LF-0219-A are:

- Good processability
- Homopolymer
- accessible food
- Good sealing performance
- Good toughness
- Typical application areas include:
  - bag/lining
  - packing
  - Movie
  - industrial applications
  - food contact applications

General Information			
Additive	Resin		
Features	Homopolymer		
	Workability, good		
	Good heat sealability		
	Good toughness		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Lining		
	Industrial application		
	Mixing		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.3	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	ASTM D882
secant modulus			
1% secant, MD: 38 µm, blown film	170	MPa	
1% secant, TD: 38 µm, blown film	190	MPa	ASTM D882
Tensile Strength			ASTM D882

MD: Yield, 38 µm, blown film	11.0	MPa	ASTM D882
TD: Yield, 38 µm, blown film	9.00	MPa	ASTM D882
MD: Broken, 38 µm, blown film	22.0	MPa	ASTM D882
TD: Broken, 38 µm, blown film	18.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 38 µm, blown film	250	%	ASTM D882
TD: Broken, 38 µm, blown film	550	%	ASTM D882
Dart Drop Impact <sup>1</sup> (38 µm, Blown Film)	160	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 38 µm, blown film	160	g	ASTM D1922
TD: 38 µm, blown film	150	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 µm, Blown Film)	37		ASTM D2457
Haze (38.0 µm, Blown Film)	15	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture <sup>2</sup> (38.0 µm)	180	J/cm	Internal method

Film properties are typical of blown film extruded on a 1.5" extruder with 3" die and 35-mil die gap at a blow up ratio of 2.5:1, but are dependent upon operating conditions.

#### NOTE

1. F50
2. Blown Film

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#### Recommended distributors for this material

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