

# NOVAPOL® LF-Y819 Series

Low Density Polyethylene

NOVA Chemicals

Message:

LF-Y819-A (Base resin): Industrial packaging, shrink film, blends with LLDPE, small diameter pipe and tubing

LF-Y819-C (Antiblock): Industrial packaging, liners, shrink film, blends with LLDPE

General Information			
Additive	LF-Y819-C: anti-caking agent		
Features	Anti-caking property		
	Workability, good		
	Good strength		
	Good toughness		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Industrial application		
	Piping system		
	Pipe fittings		
	Mixing		
	Shrinkable film		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1 2		
Processing Method	Film extrusion		
	Pipeline extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.919	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
Film Thickness - Recommended / Available	> 25µm		
secant modulus			ASTM D882
1% secant, MD: 38 µm, blown film	180	MPa	ASTM D882
1% secant, TD: 38 µm, blown film	225	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm, blown film	13.0	MPa	ASTM D882
TD: Yield, 38 µm, blown film	10.0	MPa	ASTM D882
MD: Broken, 38 µm, blown film	29.0	MPa	ASTM D882

TD: Broken, 38 µm, blown film	21.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 38 µm, blown film	170	%	ASTM D882
TD: Broken, 38 µm, blown film	490	%	ASTM D882
Dart Drop Impact (38 µm, Blown Film)	160	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 38 µm, blown film	180	g	ASTM D1922
TD: 38 µm, blown film	130	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 µm, Blown Film)	30		ASTM D2457
Haze (38.0 µm, Blown Film)	19	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture - Blown Film (38.0 µm)	210	J/cm	Internal method
Extrusion instructions			

Optimum Blow-up Ratio: 2:1 to 3:1

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#### Recommended distributors for this material

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