

# NOVAPOL® PF-Y818-FX

Linear Low Density Polyethylene  
NOVA Chemicals

Message:

NOVAPOL® PF-Y818-FX is a linear low density polyethylene material. This product is available in North America and is processed by film extrusion or blow molding.

NOVAPOL® The main features of the PF-Y818-FX are:

- Butene Comonomer
- processing aids
- accessible food
- Good stiffness
- Good toughness

Typical application areas include:

- bag/lining
- packing
- Movie
- industrial applications
- food contact applications

General Information	
Additive	Processing aid
Features	Butene comonomer
	Rigid, good
	Machinable
	Good melt strength
	Good toughness
Uses	Compliance of Food Exposure
	Packaging
	Films
	Lining
	Industrial application
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a
Processing Method	Film extrusion
	Blow film

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.919	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Blown Film)	> 0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	

secant modulus			ASTM D882
1% secant, MD: 25 µm, blown film	175	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	230	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm, blown film	10.0	MPa	ASTM D882
TD: Yield, 25 µm, blown film	11.0	MPa	ASTM D882
MD: Broken, 25 µm, blown film	47.0	MPa	ASTM D882
TD: Broken, 25 µm, blown film	33.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 µm, blown film	500	%	ASTM D882
TD: Broken, 25 µm, blown film	810	%	ASTM D882
Dart Drop Impact (25 µm, Blown Film)	120	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	50	g	ASTM D1922
TD: 25 µm, blown film	480	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	65		ASTM D2457
Haze (25.0 µm, Blown Film)	7.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture <sup>1</sup> (25.0 µm)	840	J/cm	Internal method
NOTE			

1. Blown Film

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

