

NOVAPOL® PF-Y821 Series

Linear Low Density Polyethylene

NOVA Chemicals

Message:

PF-Y821-BP:
Additives: 1000 ppm Slip, 3150 ppm Antiblock
Applications: General purpose packaging, bags requiring moderate clarity, bread bags.
PF-Y821-CP:
Additives: 2500 ppm Antiblock
Applications: Industrial packaging, heavy duty sacks

General Information			
Additive	Processing aid		
	Anti-caking agent (3150 ppm) [PF-Y821-BP]		
	Anti-caking agent (2500 ppm) [PF-Y821-CP]		
	Antioxidation		
	Sliding agent (1000 ppm) [PF-Y821-BP]		
Features	Butene comonomer		
	Rigid, good		
	smoothness		
	Anti-caking property		
	Antioxidation		
	Machinable		
	Compliance of Food Exposure		
	Medium transparency		
Uses	Packaging		
	Bags		
	Industrial application		
	General		
	Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	Film extrusion		
	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.921	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	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	210	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	45.0	MPa	ASTM D882
TD: Broken, 25 μm, blown film	33.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 μm, blown film	610	%	ASTM D882
TD: Broken, 25 μm, blown film	870	%	ASTM D882
Dart Drop Impact ¹ (25 μm, Blown Film)	110	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 25 μm, blown film	100	g	ASTM D1922
TD: 25 μm, blown film	400	g	ASTM D1922

Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 μm, Blown Film)	57		ASTM D2457
Haze (25.0 μm, Blown Film)	12	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture ² (25.0 μm)	320	J/cm	Internal method

Film properties are typical of blown film extruded on a 2.5" extruder with 4" 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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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

