NOVAPOL® PF-Y821-KPR

Linear Low Density Polyethylene

NOVA Chemicals

Message:

NOVAPOL®PF-Y821-KPR 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-Y821-KPR are:
Antiblock software
Butene Comonomer
slide
processing aids
Antioxidants
Typical application areas include:
bag/lining
packing
food contact applications

General Information	
Additive	Processing aid Anti-caking agent (3150 ppm) Antioxidation Sliding agent (750 ppm)
Features	Butene comonomer Rigid, good smoothness Anti-caking property Antioxidation Machinable Compliance of Food Exposure
Uses	Lining Food packaging
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a 2
Processing Method	Film extrusion Blow film

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.923	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (Blown Film)	< 0.25		ASTM D1894

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
secant modulus			ASTM D882
1% secant, MD: 38 µm, blown film	190	MPa	ASTM D882
1% secant, TD: 38 µm, blown film	230	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm, blown film	10.0	MPa	ASTM D882
TD: Yield, 38 µm, blown film	10.0	MPa	ASTM D882
MD: Broken, 38 µm, blown film	30.0	MPa	ASTM D882
TD: Broken, 38 µm, blown film	25.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 38 µm, blown film	660	%	ASTM D882
TD: Broken, 38 µm, blown film	730	%	ASTM D882
Dart Drop Impact [1] (38 µm, Blown Film)	140	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 38 µm, blown film	200	g	ASTM D1922
TD: 38 µm, blown film	390	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 µm, Blown Film)	57		ASTM D2457
Haze (38.0 µm, Blown Film)	11	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture [2] (38.0 µm)	320	J/cm	Internal method
Film properties are typical of blown film extruded at a blowup ratio of 2.5:1; but are dependant upon operating conditions.			
NOTE			
1.	F50		
2.	Blown Film		

Recommended distributors for this material

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