NOVAPOL® PF-Y821-MPR

Linear Low Density Polyethylene

NOVA Chemicals

Message:

NOVAPOL® PF-Y821-MPR 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-MPR are: Antiblock software Butene Comonomer processing aids Antioxidants accessible food NOVAPOL® Typical application areas of PF-Y821-MPR are: food contact applications

General Information			
Additive	Processing aid		
	Anti-caking agent (2500 ppm)		
	Antioxidation		
Features	Butene comonomer		
	Rigid, good		
	Anti-caking property		
	Antioxidation		
	Machinable		
	Compliance of Food Exposure		
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)	> 0.50		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			

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