

NOVAPOL® LF-0718-A

Low Density Polyethylene

NOVA Chemicals

Message:

NOVAPOL® LF-0718-A is a low density polyethylene material. This product is available in North America and is processed by film extrusion or extrusion coating.

NOVAPOL® The main features of the LF-0718-A are:

high gloss

accessible food

Typical application areas include:

Movie

food contact applications

additive/masterbatch

General Information			
Features	Highlight		
	Good melt strength		
	Compliance of Food Exposure		
Uses	Films		
	Mixing		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1 2		
Processing Method	Film extrusion		
	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.917	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
secant modulus			ASTM D882
1% secant, MD: 38 µm, blown film	125	MPa	ASTM D882
1% secant, TD: 38 µm, blown film	140	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm, blown film	10.0	MPa	ASTM D882
TD: Yield, 38 µm, blown film	9.00	MPa	ASTM D882
MD: Broken, 38 µm, blown film	19.0	MPa	ASTM D882
TD: Broken, 38 µm, blown film	14.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 38 µm, blown film	300	%	ASTM D882
TD: Broken, 38 µm, blown film	470	%	ASTM D882

Dart Drop Impact ¹ (38 µm, Blown Film)	110	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 38 µm, blown film	170	g	ASTM D1922
TD: 38 µm, blown film	98	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 µm, Blown Film)	56		ASTM D2457
Haze (38.0 µm, Blown Film)	9.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture - Blown Film (38.0 µm)	170	J/cm	Internal method
Film properties are typical of blown film extruded on a 1.5" extruder with 3" die and 35-mil die gap at a blow up ratio of 2.5:1, but are dependent upon operating conditions.			
NOTE			
1.	F50		

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