



NOVAPOL® LF-0718-A

NOVA Chemicals - Low Density Polyethylene

Monday, September 27, 2010

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Food Contact Acceptable • High Gloss • Good Melt Strength • Low Density • Recyclable Material
Uses	• Blending
Agency Ratings	• FDA 21 CFR 177.1520(c) 2.1 ¹
Processing Method	• Film Extrusion

ASTM & ISO Properties²

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.919		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1.5	mil	
Secant Modulus - 1% Secant, MD (1.5 mil, Blown Film)	18100	psi	ASTM D882
Secant Modulus - 1% Secant, TD (1.5 mil, Blown Film)	20300	psi	ASTM D882
Tensile Strength - MD (Yield, 1.5 mil, Blown Film)	1450	psi	ASTM D882
Tensile Strength - TD (Yield, 1.5 mil, Blown Film)	1310	psi	ASTM D882
Tensile Strength - MD (Break, 1.5 mil, Blown Film)	2760	psi	ASTM D882
Tensile Strength - TD (Break, 1.5 mil, Blown Film)	2030	psi	ASTM D882
Tensile Elongation - MD (Break, 1.5 mil, Blown Film)	300	%	ASTM D882
Tensile Elongation - TD (Break, 1.5 mil, Blown Film)	470	%	ASTM D882
Dart Drop Impact (1.5 mil, Blown Film)	110	g	ASTM D1709A
Elmendorf Tear Strength - MD (1.5 mil, Blown Film)	170	g	ASTM D1922
Elmendorf Tear Strength - TD (1.5 mil, Blown Film)	98	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 1.50 mil, Blown Film)	56		ASTM D2457
Haze (1.50 mil, Blown Film)	9.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture (1.5 mil, Blown Film)	318	ft-lb/in	Internal Method

Notes

¹ LF-0718-A is subject to the specific limitation that it may not be used in articles used for packing or holding food during cooking.

² Typical properties: these are not to be construed as specifications.