



NOVAPOL® LA-0219-A

NOVA Chemicals - Low Density Polyethylene

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Food Contact Acceptable • Good Heat Seal • Good Processability • Good Toughness • Low Density
Uses	• Blending • Foam • Industrial Applications • Liners • Packaging
Agency Ratings	• FDA 21 CFR 177.1520(c) 2.1
Forms	• Pellets
Processing Method	• Foam Processing

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.920		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	2.3	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	1280	psi	ASTM D638
Tensile Elongation (Break)	710	%	ASTM D638
Flexural Modulus - 1% Secant	42900	psi	ASTM D790
Coefficient of Friction (Blown Film)	> 0.60		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Secant Modulus - 1% Secant, MD (1.5 mil, Blown Film)	21800	psi	ASTM D882
Secant Modulus - 1% Secant, TD (1.5 mil, Blown Film)	25400	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)	2610	psi	ASTM D882
Tensile Strength - TD (Break, 1.5 mil, Blown Film)	2320	psi	ASTM D882
Tensile Elongation - MD (Break, 1.5 mil, Blown Film)	350	%	ASTM D882
Tensile Elongation - TD (Break, 1.5 mil, Blown Film)	550	%	ASTM D882
Dart Drop Impact (1.5 mil, Blown Film)	90	g	ASTM D1709A
Elmendorf Tear Strength - MD (1.5 mil, Blown Film)	230	g	ASTM D1922
Elmendorf Tear Strength - TD (1.5 mil, Blown Film)	150	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 1.50 mil, Blown Film)	40		ASTM D2457
Haze (1.50 mil, Blown Film)	12.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Melt Strength	0.500	g/3 min	
Puncture ² (1.5 mil)	843	ft-lb/in	Internal Method

Notes

¹ Typical properties: these are not to be construed as specifications.

² Blown Film