



NOVAPOL® PF-0218 Series

NOVA Chemicals - Linear Low Density Polyethylene

Tuesday, November 5, 2019

General Information

Product Description

PF-0218-B (750 ppm Slip, 3150 ppm Antiblock): Trash bags, liners, general packaging

PF-0218-D (1500 ppm Slip, 6300 ppm Antiblock): Industrial liners, heavy duty bags

PF-0218-F (Process antioxidant only): Stretch wrap, blend resin, industrial packaging

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• PF-0218-B: Antiblock: 3150 ppm; Slip: 750 ppm	• PF-0218-D: Antiblock: 6300 ppm; Slip: 1500 ppm	• PF-0218-F: Antioxidant
Features	• Antiblocking • Butene Comonomer • Food Contact Acceptable	• Good Processability • Good Strength • Good Toughness	• Low Density • Slip
Uses	• Bags • Blending • Film	• Industrial Applications • Liners • Packaging	• Stretch Wrap
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	• Film Extrusion		

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)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Secant Modulus - 1% Secant, MD (0.98 mil, Blown Film)	24700	psi	ASTM D882
Secant Modulus - 1% Secant, TD (0.98 mil, Blown Film)	27600	psi	ASTM D882
Tensile Strength - MD (Yield, 0.98 mil, Blown Film)	1450	psi	ASTM D882
Tensile Strength - TD (Yield, 0.98 mil, Blown Film)	1450	psi	ASTM D882
Tensile Strength - MD (Break, 0.98 mil, Blown Film)	4640	psi	ASTM D882
Tensile Strength - TD (Break, 0.98 mil, Blown Film)	3630	psi	ASTM D882
Tensile Elongation - MD (Break, 0.98 mil, Blown Film)	660	%	ASTM D882
Tensile Elongation - TD (Break, 0.98 mil, Blown Film)	700	%	ASTM D882
Dart Drop Impact (0.98 mil, Blown Film)	100	g	ASTM D1709A
Elmendorf Tear Strength - MD (0.98 mil, Blown Film)	110	g	ASTM D1922
Elmendorf Tear Strength - TD (0.98 mil, Blown Film)	330	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 0.984 mil, Blown Film)	43		ASTM D2457
Haze (0.984 mil, Blown Film)	14.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture - Blown Film (1.0 mil)	543	ft-lb/in	Internal Method

Notes

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