

DOW™ LLDPE NG 1045.11B

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

LLDPE NG 1045.11B is a Linear Low Density Polyethylene resin, 1-Butene copolymer, produced in the Solution process. This resin is designed to be used in blown extrusion to produce films for industrial and consumer applications, such as liners and bags.

Main Characteristics:

Complies with Regulation U.S. FDA 21 CFR 177.1520 (c) 3.2a

Complies with European Commission Regulation (EU) No 10/2011

Consult the regulations for complete details

General Information			
Additive	Antiblock (2500 ppm)		
	Slip (1000 ppm)		
Agency Ratings	EU No 10/2011		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.919	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	Internal Method
Film Puncture Resistance (51 µm)	9.10	J/cm ³	
Secant Modulus			ASTM D882
2% Secant, MD : 51 µm	250	MPa	ASTM D882
2% Secant, TD : 51 µm	294	MPa	
Tensile Strength			
MD : Yield,51 µm	7.10	MPa	
TD : Yield,51 µm	7.70	MPa	ASTM D882
MD : Break, 51 µm	26.2	MPa	
TD : Break, 51 µm	21.8	MPa	ASTM D882
Tensile Elongation			
MD : Break, 51 µm	690	%	
TD : Break, 51 µm	780	%	ASTM D1709A
Dart Drop Impact (51 µm)	170	g	
Elmendorf Tear Strength			ASTM D1922
MD : 51 µm	330	g	ASTM D1922
TD : 51 µm	570	g	
Optical	Nominal Value	Unit	Test Method

Gloss (45°, 50.8 μm)	37		ASTM D2457
Haze (50.8 μm)	26	%	ASTM D1003

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