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/cm³	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	
Film Puncture Resistance (51 µm)	9.10	J/cm³	Internal Method
Secant Modulus			ASTM D882
2% Secant, MD : 51 µm	250	MPa	
2% Secant, TD : 51 µm	294	MPa	
Tensile Strength			ASTM D882
MD : Yield,51 µm	7.10	MPa	
TD : Yield,51 µm	7.70	MPa	
MD : Break, 51 µm	26.2	MPa	
TD : Break, 51 µm	21.8	MPa	
Tensile Elongation			ASTM D882
MD : Break, 51 µm	690	%	
TD : Break, 51 µm	780	%	
Dart Drop Impact (51 µm)	170	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 51 µm	330	g	
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

Recommended distributors for this material

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