

DOWLEX™ NG 2045.11B

Polyethylene Resin
The Dow Chemical Company

Message:

DOWLEX™ NG 2045.11B is a Polyethylene Resin material. It is available in Latin America.
Important attributes of DOWLEX™ NG 2045.11B are:
Antiblock
Processing Aid
Slip
Typical application of DOWLEX™ NG 2045.11B: Food Contact Applications

General Information			
Additive	Antiblock (2500 ppm)		
	Slip (1000 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.921	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.15		ASTM D1693
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
Film Puncture Resistance (38 µm)	8.03	J/cm³	Internal Method
Secant Modulus			ASTM D882
2% Secant, MD : 38 µm	160	MPa	
2% Secant, TD : 38 µm	180	MPa	
Tensile Strength			ASTM D882
MD : Yield,38 µm	9.99	MPa	
TD : Yield,38 µm	9.99	MPa	
MD : Break, 38 µm	35.0	MPa	
TD : Break, 38 µm	25.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 38 µm	730	%	
TD : Break, 38 µm	810	%	
Dart Drop Impact (38 µm)	290	g	ASTM D1709A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 37.5 µm)	58		ASTM D2457
Haze (37.5 µm)	12	%	ASTM D1003
Extrusion	Nominal Value	Unit	

Melt Temperature

215

°C

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