



DOWLEX™ 2045.11G

Linear Low Polyethylene Resin

- For high speed, thin film applications
- Additional thermal stability
- Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a.
Consult the regulations for complete details.

Slip Additive: 1200 ppm
Antiblock Additive: 3000 ppm

Physical Properties	Test Method	Values ⁽¹⁾ English (SI)
Resin Properties		
Melt Index, g/10 min	ASTM D 1238	1.0
Density, g/cc	ASTM D 792	0.9220
DSC Melting Point, °F (°C)	Dow Method	252 (122)
Vicat Softening Point, °F (°C)	ASTM D 1525	219 (104)
Film Properties		
		0.8mil (20 µm) 2.0mil (51 µm)
Puncture Resistance, ft·lbf/in. ³ (J/cm ³)	Dow Method	138 (11) 118 (10)
Dart Impact (Method A), g	ASTM D 1709	134 276
Elmendorf Tear, g	MD	435 738
	CD	576 1170
Tensile Yield, psi (MPa)	MD	1849 (13) 1705 (12)
	CD	1895 (13) 1834 (13)
Ultimate Tensile, psi (MPa)	MD	8764 (60) 7532 (52)
	CD	7130 (49) 6420 (44)
Ultimate Elongation, %	MD	480 670
	CD	749 771
Toughness, ft·lbf/in. ³ (J/cm ³)	MD	2906 (240) 3295 (272)
	CD	3671 (304) 3528 (292)
Tensile Modulus, 2% Secant, psi (MPa)	MD	32,874 (227) 28,441 (196)
	CD	35,835 (247) 33,972 (234)
Gloss, 45°	ASTM D 2457	70 67
Haze, %	ASTM D 1003	7 10

Fabrication Conditions For Blown Film:

- Screw Size: 2.5 in. (63.5 mm); 24:1 L/D
- Screw Type: DSB II
- Die Gap: 70 mil (1.8 mm)
- Melt Temperature: 430-450 °F (221-232 °C)
- Output: 10 lb/hr/in. of die circumference
- Die Diameter: 6 in.
- Blow-Up Ratio: 2.5:1

(1) Typical values, not to be construed as specifications. Users should confirm results by their own tests.

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Additional Information

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