



DOWLEX™ 2056G

Polyethylene Resin

Overview

- Linear Low Density Polyethylene
- Improved thermal stability
- Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a.
- Consult the regulations for complete details.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.920 g/cm ³	0.920 g/cm ³	ASTM D792
Base Density ¹	0.920 g/cm ³	0.920 g/cm ³	Dow Method
Melt Index (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1 mil	25 µm	
Film Puncture Energy	14.0 in·lb	1.58 J	Dow Method
Film Puncture Force	14.0 lbf	62.3 N	Dow Method
Film Puncture Resistance	305 ft·lb/in ³	25.2 J/cm ³	Dow Method
Film Toughness			ASTM D882
MD	1390 ft·lb/in ³	115 J/cm ³	
TD	1550 ft·lb/in ³	128 J/cm ³	
Secant Modulus			ASTM D882
1% Secant, MD	25300 psi	174 MPa	
2% Secant, MD	23200 psi	160 MPa	
1% Secant, TD	26000 psi	179 MPa	
2% Secant, TD	23900 psi	165 MPa	
Tensile Strength			ASTM D882
MD : Yield	1700 psi	11.7 MPa	
TD : Yield	1740 psi	12.0 MPa	
MD : Break	7200 psi	49.6 MPa	
TD : Break	6000 psi	41.4 MPa	
Tensile Elongation			ASTM D882
MD : Break	700 %	700 %	
TD : Break	550 %	550 %	
Dart Drop Impact	220 g	220 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	400 g	400 g	
TD	600 g	600 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	216 °F	102 °C	ASTM D1525
Melting Temperature (DSC)	246 °F	119 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°)	26	26	ASTM D2457
Haze	23.0 %	23.0 %	ASTM D1003

Extrusion Notes

Fabrication Conditions For Blown Film:

- Screw Size: 3.5 in.
- Screw Type: DSB II
- Die Gap: 70 mil (1.8 mm)
- Melt Temperature: 419°F
- Output: 12 lb/hr/in. of die circumference
- Die Diameter: 8 in.
- Blow-Up Ratio: 2.5:1
- Screw Speed: 39 rpm
- Frost Line Height: 39 in.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

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