



DOWLEX™ 2601 Polyethylene Resin

Overview DOWLEX™ Polyethylene Resin is designed for the production of a wide variety of film applications. Films made from this resin exhibit a combination of good toughness and tear resistance.

- Linear Low Density Polyethylene

Complies with:

- U.S. FDA, FCN 741
- Canadian HPFB No Objection

Consult the regulations for complete details.

Additive • Antiblock: 2500 ppm • Slip: 1000 ppm • Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.924 g/cm ³	0.924 g/cm ³	ASTM D792
Melt Index (190°C/2.16 g)	1.3 g/10 min	1.3 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2 mil	51 µm	
Film Puncture Resistance (2.0 mil (51 µm))	59.0 ft·lb/in ³	4.88 J/cm ³	Dow Method
Secant Modulus			ASTM D882
2% Secant, MD : 2.0 mil (51 µm)	26100 psi	180 MPa	
2% Secant, TD : 2.0 mil (51 µm)	31700 psi	218 MPa	
Tensile Strength			ASTM D882
MD : Yield, 2.0 mil (51 µm)	1730 psi	11.9 MPa	
TD : Yield, 2.0 mil (51 µm)	1790 psi	12.4 MPa	
MD : Break, 2.0 mil (51 µm)	5900 psi	40.7 MPa	
TD : Break, 2.0 mil (51 µm)	4660 psi	32.1 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (51 µm)	680 %	680 %	
TD : Break, 2.0 mil (51 µm)	730 %	730 %	
Dart Drop Impact (2.0 mil (51 µm))	170 g	170 g	ASTM D1709B
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (51 µm)	680 g	680 g	
TD : 2.0 mil (51 µm)	1100 g	1100 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	226 °F	108 °C	ASTM D1525
Melting Temperature (DSC)	252 °F	122 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 2.00 mil (50.8 µm))	59	59	ASTM D2457
Haze (2.00 mil (50.8 µm))	13.0 %	13.0 %	ASTM D1003

Extrusion Notes

Fabrication Conditions For Blown Film:

- Screw Size: 2.5 in. (63.5 mm) 30:1L/D
- Screw Type: DSBII
- Die Gap: 70 mil (1.8 mm)
- Output: 10 lb/hr/in. of die circumference
- Die Diameter: 6 in.
- Blow-Up Ratio: 2.5 : 1

