



DOWLEX™ 2256G

Overview

- Linear Low Density Polyethylene
- For heavy duty blown film applications
- Improved thermal stability

Complies with:

- U.S. FDA 21 CFR 177.1520 (c) 3.2a
- EU, 10/2011
- Canadian HPFB No Objection

Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.920 g/cm ³	0.920 g/cm ³	ASTM D792
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 Puncture Resistance			
0.80 mil (20 µm)	212 ft·lb/in ³	17.5 J/cm ³	
2.0 mil (51 µm)	112 ft·lb/in ³	9.27 J/cm ³	
Film Toughness			ASTM D882
MD : 0.80 mil (20 µm)	1660 ft·lb/in ³	137 J/cm ³	
MD : 2.0 mil (51 µm)	1540 ft·lb/in ³	127 J/cm ³	
TD : 0.80 mil (20 µm)	1520 ft·lb/in ³	126 J/cm ³	
TD : 2.0 mil (51 µm)	1750 ft·lb/in ³	145 J/cm ³	
Secant Modulus			
			ASTM D882
2% Secant, MD : 0.80 mil (20 µm)	31300 psi	216 MPa	
2% Secant, MD : 2.0 mil (51 µm)	30200 psi	208 MPa	
2% Secant, TD : 0.80 mil (20 µm)	40100 psi	276 MPa	
2% Secant, TD : 2.0 mil (51 µm)	37500 psi	259 MPa	
Tensile Strength			
			ASTM D882
MD : Yield, 0.80 mil (20 µm)	1610 psi	11.1 MPa	
MD : Yield, 2.0 mil (51 µm)	1580 psi	10.9 MPa	
TD : Yield, 0.80 mil (20 µm)	1140 psi	7.86 MPa	
TD : Yield, 2.0 mil (51 µm)	1680 psi	11.5 MPa	
MD : Break, 0.80 mil (20 µm)	7780 psi	53.6 MPa	
MD : Break, 2.0 mil (51 µm)	6010 psi	41.4 MPa	
TD : Break, 0.80 mil (20 µm)	6050 psi	41.7 MPa	
TD : Break, 2.0 mil (51 µm)	6900 psi	47.5 MPa	
Tensile Elongation			
			ASTM D882
MD : Break, 0.80 mil (20 µm)	670 %	670 %	
MD : Break, 2.0 mil (51 µm)	670 %	670 %	
TD : Break, 0.80 mil (20 µm)	730 %	730 %	
TD : Break, 2.0 mil (51 µm)	820 %	820 %	
Dart Drop Impact			
			ASTM D1709A
0.80 mil (20 µm)	200 g	200 g	
2.0 mil (51 µm)	330 g	330 g	
Elmendorf Tear Strength			
			ASTM D1922
MD : 0.80 mil (20 µm)	480 g	480 g	
MD : 2.0 mil (51 µm)	980 g	980 g	
TD : 0.80 mil (20 µm)	620 g	620 g	
TD : 2.0 mil (51 µm)	1200 g	1200 g	



Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	223 °F	106 °C	ASTM D1525
Melting Temperature	250 °F	121 °C	DSC
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss			ASTM D2457
45°, 0.800 mil (20.3 µm)	75	75	
45°, 2.00 mil (50.8 µm)	72	72	
Haze			ASTM D1003
0.800 mil (20.3 µm)	6.3 %	6.3 %	
2.00 mil (50.8 µm)	9.7 %	9.7 %	

Notes

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

