



DOWLEX™ 2267A

Polyethylene Resin

Overview

- Linear Low Density Polyethylene
 - A high performance stretch film resin
 - Superior load retention, improved puncture, dart and tear
 - Complies with U.S. FDA 21 CFR 177.1520 (c) 3.1a.
- Consult the regulations for complete details.

Additive

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.917 g/cm ³	0.917 g/cm ³	ASTM D792
Base Density	0.915 g/cm ³	0.915 g/cm ³	Dow Method ¹
Melt Index (190°C/2.16 kg)	0.85 g/10 min	0.85 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Puncture Resistance			
0.80 mil (20 µm)	130 ft·lb/in ³	10.8 J/cm ³	
2.0 mil (51 µm)	131 ft·lb/in ³	10.8 J/cm ³	
Film Toughness			ASTM D882
MD: 0.80 mil (20 µm)	765 ft·lb/in ³	63.3 J/cm ³	
MD: 2.0 mil (51 µm)	1080 ft·lb/in ³	89.3 J/cm ³	
TD: 0.80 mil (20 µm)	918 ft·lb/in ³	76.0 J/cm ³	
TD: 2.0 mil (51 µm)	1050 ft·lb/in ³	86.8 J/cm ³	
Secant Modulus			ASTM D882
2% Secant, MD: 0.80 mil (20 µm)	21700 psi	149 MPa	
2% Secant, MD: 2.0 mil (51 µm)	22900 psi	158 MPa	
2% Secant, TD: 0.80 mil (20 µm)	22500 psi	155 MPa	
2% Secant, TD: 2.0 mil (51 µm)	26900 psi	185 MPa	
Tensile Strength			ASTM D882
MD: Yield, 0.80 mil (20 µm)	1340 psi	9.22 MPa	
MD: Yield, 2.0 mil (51 µm)	1360 psi	9.34 MPa	
TD: Yield, 0.80 mil (20 µm)	1380 psi	9.50 MPa	
TD: Yield, 2.0 mil (51 µm)	1450 psi	9.97 MPa	
MD: Break, 0.80 mil (20 µm)	4840 psi	33.3 MPa	
MD: Break, 2.0 mil (51 µm)	5140 psi	35.4 MPa	
TD: Break, 0.80 mil (20 µm)	3720 psi	25.7 MPa	
TD: Break, 2.0 mil (51 µm)	4150 psi	28.6 MPa	
Tensile Elongation			ASTM D882
MD: Break, 0.80 mil (20 µm)	420 %	420 %	
MD: Break, 2.0 mil (51 µm)	600 %	600 %	
TD: Break, 0.80 mil (20 µm)	610 %	610 %	
TD: Break, 2.0 mil (51 µm)	650 %	650 %	
Dart Drop Impact			ASTM D1709A
0.80 mil (20 µm)	470 g	470 g	
2.0 mil (51 µm)	610 g	610 g	
Elmendorf Tear Strength			ASTM D1922
MD: 0.80 mil (20 µm)	320 g	320 g	
MD: 2.0 mil (51 µm)	920 g	920 g	
TD: 0.80 mil (20 µm)	520 g	520 g	
TD: 2.0 mil (51 µm)	1200 g	1200 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	216 °F	102 °C	ASTM D1525

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature	252 °F	122 °C	DSC
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss			ASTM D2457
45°, 0.800 mil (20.3 µm)	65	65	
45°, 2.00 mil (50.8 µm)	68	68	
Haze (2.00 mil (50.8 µm))	> 11 %	> 11 %	ASTM D1003

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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