

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.

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.915	g/cm³	0.915	g/cm³	ASTM D792
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/in³	10.8	J/cm³	
2.0 mil (51 µm)	131	ft·lb/in³	10.8	J/cm³	
Film Toughness					ASTM D882
MD: 0.80 mil (20 µm)	765	ft·lb/in³	63.3	J/cm³	
MD: 2.0 mil (51 μm)	1080	ft·lb/in³	89.3	J/cm³	
TD: 0.80 mil (20 µm)	918	ft·lb/in³	76.0	J/cm³	
TD: 2.0 mil (51 µm)	1050	ft·lb/in³	86.8	J/cm³	
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	•	9.34	MPa	
TD: Yield, 0.80 mil (20 µm)	1380		9.50	MPa	
TD: Yield, 2.0 mil (51 µm)	1450	•	9.97	MPa	
MD: Break, 0.80 mil (20 μm)	4840	•	33.3	MPa	
MD: Break, 2.0 mil (51 μm)	5140	•	35.4	MPa	
TD: Break, 0.80 mil (20 µm)	3720	psi	25.7	MPa	
TD: Break, 2.0 mil (51 μm)	4150	•	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	q	470	q	
2.0 mil (51 µm)	610	-	610	-	
Elmendorf Tear Strength					ASTM D1922
MD: 0.80 mil (20 µm)	320	q	320	q	
MD: 2.0 mil (51 µm)	920		920	-	
TD: 0.80 mil (20 µm)	520	_	520	•	
TD: 2.0 mil (51 µm)	1200	•	1200		
Thermal	Nominal Value		Nominal Value		Test Method
Vicat Softening Temperature	216	<u> </u>	102	` '	ASTM D1525
Melting Temperature	252		122		DSC

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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.

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