



DOWLEX™ 2098P Polyethylene Resin

Overview

- Excellent tear strength and medium stiffness
- Outstanding toughness and puncture resistance
- For blown film extrusion
- Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a.
- Consult the regulations for complete details.

DOWLEX 2098P Polyethylene Resin is a formulated linear low density resin offering excellent tear strength, medium stiffness, outstanding toughness and puncture resistance for films used in food contact applications. When used unmodified and processed according to good manufacturing practices, this resin is technically suitable for food contact end use.

Additive

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.926 g/cm ³	0.926 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 Thickness - Tested	2 mil	38 µm	
Tensile Strength			ASTM D882
MD : Yield, 1.5 mil (38 µm)	1850 psi	12.8 MPa	
TD : Yield, 1.5 mil (38 µm)	2200 psi	15.2 MPa	
MD : Break, 1.5 mil (38 µm)	5750 psi	39.6 MPa	
TD : Break, 1.5 mil (38 µm)	4950 psi	34.1 MPa	
Tensile Elongation			ASTM D882
MD : Break, 1.5 mil (38 µm)	670 %	670 %	
TD : Break, 1.5 mil (38 µm)	780 %	780 %	
Dart Drop Impact (1.5 mil (38 µm))	220 g	220 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 1.5 mil (38 µm)	240 g	240 g	
TD : 1.5 mil (38 µm)	730 g	730 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	223 °F	106 °C	ASTM D1525
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 1.50 mil (38.1 µm))	45	45	ASTM D2457
Haze (1.50 mil (38.1 µm))	15.0 %	15.0 %	ASTM D1003
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	430 to 470 °F	221 to 243 °C	

Extrusion Notes

Fabrication Conditions For Blown Film:

- Melt Temperature: 430-470°F (220-240°C)
- Blow-Up Ratio: 2:1
- Gauge: 0.5-3.0 mil

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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