

Technical Information



CEFOR™ 1210P

Linear Low Density Polyethylene Resin

Overview CEFOR 1210P is a butene Linear Low Density Polyethylene for general blown extrusion film applications.

Main Characteristics:

- Used in Industrial, Food & Specialty Packaging
- Better optics and processability
- Better color stability
- Good sealing performance

Complies with:

- U.S. FDA 21 177.1520 (c) 3.2a .
- EU. No 10/2011

Consult the regulations for complete details.

Additive:

- Antiblock: 2000ppm
- Slip: 1200ppm
- Processing Aid: No

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Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.919 g/cm ³	0.919 g/cm ³	ASTM D792
Base Density ¹	0.918 g/cm ³	0.918 g/cm ³	Dow Method
Melt Mass-Flow Rate (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ISO 1133
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2.0 mil	51 µm	
Film Puncture Resistance (2.0 mil (51 µm))	99.0 ft·lb/in ²	8.19 J/cm ²	Dow Method
Secant Modulus			ASTM D882
2% Secant, MD : 2.0 mil (51 µm)	26600 psi	183 MPa	
2% Secant, TD : 2.0 mil (51 µm)	31500 psi	217 MPa	
Tensile Strength			ASTM D882
MD : Yield, 2.0 mil (51 µm)	1500 psi	10.3 MPa	
TD : Yield, 2.0 mil (51 µm)	1600 psi	11.0 MPa	
MD : Break, 2.0 mil (51 µm)	4600 psi	31.7 MPa	
TD : Break	3630 psi	25.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (51 µm)	660 %	660 %	
TD : Break, 2.0 mil (51 µm)	710 %	710 %	
Dart Drop Impact (2.0 mil (51 µm))	100 g	100 g	ASTM D1709A
Elmendorf Tear Strength ²			ASTM D1922
MD : 2.0 mil (51 µm)	110 g	110 g	
TD : 2.0 mil (51 µm)	260 g	260 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	214 °F	101 °C	ASTM D1525
Melting Temperature (DSC)	241 °F	116 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (20°, 2.00 mil (50.8 µm))	69	69	ASTM D2457
Haze (2.00 mil (50.8 µm))	11 %	11 %	ASTM D1003

Extrusion Notes

Fabrication Conditions For Blown Film:

- Melt Temperature: 440°F (227°C)
- Die Gap: 70mil (1.8mm)
- Output: 120 lb/hr (55 Kg/hr)
- Blow Up Ratio: 2.5:1
- Frost Line Height: 28 in. (71 cm)

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.

² Method B; Modified Rectangular Test Specimen