



CEFOR™ 1220P

Linear Low Density Polyethylene Resin

Overview

CEFOR 1220P is a butene Linear Low Density Polyethylene for general blown film extrusion film applications.

Main Characteristics:

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

Complies with:

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

Consult the regulations for complete details.

Additive:

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

Additive

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

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)	2.0 g/10 min	2.0 g/10 min	ISO 1133
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2 mil	38 µm	
Film Puncture Resistance (1.5 mil (38 µm))	60.4 ft·lb/in ³	5.00 J/cm ³	Dow Method
Secant Modulus			ASTM D882
2% Secant, MD : 1.5 mil (38 µm)	21800 psi	150 MPa	
2% Secant, TD : 1.5 mil (38 µm)	21000 psi	145 MPa	
Tensile Strength			ASTM D882
MD : Yield, 1.5 mil (38 µm)	1450 psi	10.0 MPa	
TD : Yield, 1.5 mil (38 µm)	1450 psi	10.0 MPa	
MD : Break, 1.5 mil (38 µm)	4790 psi	33.0 MPa	
TD : Break, 1.5 mil (38 µm)	3630 psi	25.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 1.5 mil (38 µm)	950 %	950 %	
TD : Break, 1.5 mil (38 µm)	1100 %	1100 %	
Dart Drop Impact (1.5 mil (38 µm))	140 g	140 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 1.5 mil (38 µm)	220 g	220 g	
TD : 1.5 mil (38 µm)	330 g	330 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	206 °F	96.7 °C	ASTM D1525
Melting Temperature (DSC)	241 °F	116 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 1.50 mil (38.1 µm))	53	53	ASTM D2457
Haze (1.50 mil (38.1 µm))	13.0 %	13.0 %	ASTM D1003

Extrusion Notes

Fabrication Conditions For Blown Film:

- Melt Temperature: 428°F (206°C)
- Die Gap: 70mil (1.8mm)
- Output: 120 lb/hr (54kg/fr)
- Blow-Up Ratio: 2.5:1

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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