

Technical Information



CEFOR™ 1050P

Linear Low Density Polyethylene Resin

Overview

CEFOR 1050P is a Linear Low Density Polyethylene Resin 1-Butene copolymer, produced in the Solution process. This resin is designed to be used in cast extrusion to produce films for stretch and health & hygiene applications.

Complies with:

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

Consult the regulation for complete details

Additive:

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

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Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.916 g/cm ³	0.916 g/cm ³	ASTM D792
Base Density ¹	0.916 g/cm ³	0.916 g/cm ³	Dow Method
Melt Mass-Flow Rate (190°C/2.16 kg)	3.0 g/10 min	3.0 g/10 min	ISO 1133
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	0.94 mil	24 µm	
Film Puncture Resistance (0.94 mil (24 µm))	134 ft-lb/in ³	11.1 J/cm ³	Dow Method
Secant Modulus			ASTM D882
2% Secant, MD : 0.94 mil (24 µm)	28100 psi	194 MPa	
2% Secant, TD : 0.94 mil (24 µm)	25200 psi	174 MPa	
Tensile Strength			ASTM D882
MD : Yield, 0.94 mil (24 µm)	4870 psi	33.6 MPa	
TD : Yield, 0.94 mil (24 µm)	2630 psi	18.1 MPa	
MD : Break, 0.94 mil (24 µm)	870 psi	6.00 MPa	
TD : Break, 0.94 mil (24 µm)	754 psi	5.20 MPa	
Tensile Elongation			ASTM D882
MD : Break, 0.94 mil (24 µm)	560 %	560 %	
TD : Break, 0.94 mil (24 µm)	870 %	870 %	
Dart Drop Impact (0.94 mil (24 µm))	50 g	50 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 0.94 mil (24 µm)	52 g	52 g	
TD : 0.94 mil (24 µm)	260 g	260 g	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 0.940 mil (23.9 µm))	93	93	ASTM D2457
Haze (0.940 mil (23.9 µm))	0.94 %	0.94 %	ASTM D1003

Extrusion Notes

Processing Conditions for cast film analyzed:

- Die gap: 31.5 mil (0.8 mm)
- Melt Temperature: 455°F (235°C)
- Chill Roll Temperature: 64.4°F (18°C)
- Haul Off Speed: 15 m/min

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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