

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:

- U.S FDA 21 CFR 177. 1520 (c) 3.2a.
- European Commission Regulation (EU). No 10/2011

Consult the regulations for complete details.

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

Physical Properties	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.916 g/cm ³	0.916 g/cm ³	ASTM D792
Base Density ¹	0.918 g/cm ³	0.918 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
Film Properties	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness – Tested	0.94 mil	24 µm	
Film Puncture Resistance	134 ft/lb/in ³	11.1 J/cm ³	Dow Method
Secant Modulus			ASTM D882
2% Secant, MD	28100 psi	194 MPa	
2% Secant, TD	15200 psi	174 MPa	
Tensile Strength			ASTM D882
Yield : MD	4870 psi	33.6 MPa	
Yield : TD	2630 psi	18.1 MPa	
Break : MD	870 psi	6.00 MPa	
Break : TD	754 psi	5.20 MPa	
Tensile Elongation			ASTM D882
Break : MD	560 %	560 %	
Break : TD	870 %	870 %	
Dart Drop Impact	50 g	50 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	52 g	52 g	
TD	260 g	260 g	
Optical Properties	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (20°)	93	93	ASTM D2457
Haze	0.94 %	0.94 %	ASTM D1003

Extrusion Notes

Fabrication 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