

CEFOR™ 1220P

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

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

General Information			
Additive	Anti-caking agent (2000 ppm)		
	Sliding agent (1200 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.919	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
Film Puncture Resistance (38 µm)	5.00	J/cm³	Internal method
secant modulus			ASTM D882
2% secant, MD: 38 µm	150	MPa	ASTM D882
2% secant, TD: 38 µm	145	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm	10.0	MPa	ASTM D882
TD: Yield, 38 µm	10.0	MPa	ASTM D882
MD: Fracture, 38 µm	33.0	MPa	ASTM D882
TD: Fracture, 38 µm	25.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 38 µm	950	%	ASTM D882
TD: Fracture, 38 µm	1100	%	ASTM D882

Dart Drop Impact (38 μm)	140	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 38 μm	220	g	ASTM D1922
TD : 38 μm	330	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.7	°C	ASTM D1525
Melting Temperature (DSC)	116	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.1 μm)	53		ASTM D2457
Haze (38.1 μm)	13	%	ASTM D1003
Extrusion instructions			

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

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