DOW™ Butene 1220P

Polyethylene Resin

The Dow Chemical Company

Message:

Polyethylene 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.

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

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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Phone: +86 13424755533

Email: sales@su-jiao.com

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