DOW™ Butene 1210P

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

Polyethylene Resin 1210P is a butene Linear Low Density Polyethylene for general blown extrusion film applications.
Main Characteristics:
Used in Industrial, Food & Specialty Packaging
Better optics and processability
Better color stability
Good sealing performance
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)	1.0	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	51	µm	
Film Puncture Resistance (51 µm)	8.19	J/cm³	Internal method
secant modulus			ASTM D882
2% secant, MD: 51 µm	183	MPa	ASTM D882
2% secant, TD: 51 µm	217	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	10.3	MPa	ASTM D882
TD: Yield, 51 µm	11.1	MPa	ASTM D882
MD: Fracture, 51 µm	31.7	MPa	ASTM D882
TD: Fracture	25.1	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	660	%	ASTM D882
TD: Fracture, 51 µm	710	%	ASTM D882
Dart Drop Impact (51 µm)	100	g	ASTM D1709A
Elmendorf Tear Strength [1]			ASTM D1922

MD : 51 µm	110	g	ASTM D1922
TD : 51 µm	260	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	101	°C	ASTM D1525
Melting Temperature (DSC)	116	°C	Internal method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (20°, 50.8 µm)	69		ASTM D2457
Haze (50.8 µm)	11	%	ASTM D1003

Extrusion instructions

Fabrication Conditions For Blown Film:
Melt Temperature: 440°F (227°C)
Die Gap: 70mil (1.8mm)
Output: 120 lb/hr (55 Kg/hr)
Blow Up Ratio: 2.5:1
Frost Line Height: 28 in. (71 cm)

NOTE

1.	Method B; Modified Rectangular Test Specimen

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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