

DOW™ Butene 1211P

Polyethylene Resin

The Dow Chemical Company

Message:

Polyethylene 1211P is a butene Linear Low Density Polyethylene for general blown 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			
Agency Ratings		FDA 21 CFR 177.1520(c) 3.2a	
		Europe No 10/2011	
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	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	11.0	MPa	ASTM D882
MD: Fracture, 51 µm	31.7	MPa	ASTM D882
TD: Fracture, 51 µm	25.0	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			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)

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