

DOW™ Butene 1221G1

Polyethylene Resin

The Dow Chemical Company

Message:

Used in Industrial, Food and Specialty Packaging

Better optics and processability

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/cm ³	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	25	µm	
Film Puncture Force ¹ (25 µm)	48.9	N	Internal method
Film Puncture Resistance (25 µm)	9.02	J/cm ³	Internal method
secant modulus			ASTM D882
2% secant, MD: 25 µm	149	MPa	ASTM D882
2% secant, TD: 25 µm	147	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	10.7	MPa	ASTM D882
TD: Yield, 25 µm	8.94	MPa	ASTM D882
MD: Break, 25 µm	39.6	MPa	ASTM D882
TD: Break, 25 µm	20.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	450	%	ASTM D882
TD: Break, 25 µm	680	%	ASTM D882
Dart Drop Impact (25 µm)	66	g	ASTM D1709A
Elmendorf Tear Strength ²			ASTM D1922
MD : 25 µm	37	g	ASTM D1922
TD : 25 µm	370	g	ASTM D1922
Film Tensile Properties-Maximum Elongation ³ (25.4 µm)	230	%	Internal method
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	96.1	°C	ASTM D1525
Melting Temperature (DSC)	116	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (20°, 25.4 μm)	151		ASTM D2457
Clarity (25.4 μm)	99.0		ASTM D1746
Haze (25.4 μm)	0.56	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	271	°C	
Extrusion instructions			
铸造薄膜的制造条件: 模具间隙:20 密尔 (0.50 mm) 熔体温度:520°F (271°C) 气隙:3 英寸 (7.6 cm) 脱离速度:600 fpm (183 mpm)			

NOTE	
1.	Test on pallet, 200% prestretching
2.	Modified rectangular measuring piece
3.	Test on pallet

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