

DOW™ Butene 1211G1

Polyethylene Resin

The Dow Chemical Company

Message:

Used in Industrial, Food and Specialty Packaging

Better optics and processability

Good seal performance

Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a.

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
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)	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/cm ³	Internal method
Film strength			ASTM D882
MD : 51 µm	103	J/cm ³	ASTM D882
TD : 51 µm	98.1	J/cm ³	ASTM D882
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 D1709B
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)	76		ASTM D2457
Clarity (50.8 µm)	97.0		ASTM D1746
Haze (50.8 µm)	7.8	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	227	°C	
Extrusion instructions			
吹塑薄膜的制造条件: 挤塑机:Gloucester 螺杆尺寸:2.5 英寸 (63.5 mm);24:1 L/D) 螺杆类型:SFD 模具间隙:70 密尔 (1.8 mm) 熔体温度:440°F (227°C) 输出:120 磅/小时 放大比:2.5:1 冷冻线高度:28 英寸			
NOTE			

1.

Modified rectangular measuring piece

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