

DOW™ Butene 1220G1

Polyethylene Resin
The Dow Chemical Company

Message:

Used in Industrial, Food and Specialty Packaging
Better optics and processability
Good seal performance
This resin contains slip and antiblock additives
Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a.
Consult the regulations for complete details.

General Information			
Additive	Anti-caking agent (2000 ppm)		
	Sliding agent (1200 ppm)		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.919	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 Puncture Resistance			Internal method
20 µm	7.20	J/cm ³	Internal method
51 µm	6.54	J/cm ³	Internal method
Film strength			ASTM D882
MD : 20 µm	87.6	J/cm ³	ASTM D882
MD : 51 µm	103	J/cm ³	ASTM D882
TD : 20 µm	83.5	J/cm ³	ASTM D882
TD : 51 µm	96.7	J/cm ³	ASTM D882
secant modulus			ASTM D882
2% secant, MD: 20 µm	176	MPa	ASTM D882
2% secant, MD: 51 µm	167	MPa	ASTM D882
2% secant, TD: 20 µm	207	MPa	ASTM D882
2% secant, TD: 51 µm	207	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 20 µm	10.1	MPa	ASTM D882
MD: Yield, 51 µm	10.2	MPa	ASTM D882
TD: Yield, 20 µm	10.3	MPa	ASTM D882
TD: Yield, 51 µm	10.6	MPa	ASTM D882
MD: Break, 20 µm	30.6	MPa	ASTM D882
MD: Fracture, 51 µm	27.4	MPa	ASTM D882

TD: Break, 20 μm	21.2	MPa	ASTM D882
TD: Fracture, 51 μm	23.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 20 μm	570	%	ASTM D882
MD: Fracture, 51 μm	720	%	ASTM D882
TD: Break, 20 μm	660	%	ASTM D882
TD: Fracture, 51 μm	740	%	ASTM D882
Dart Drop Impact			ASTM D1709A
20 μm	76	g	ASTM D1709A
51 μm	180	g	ASTM D1709A
Elmendorf Tear Strength ¹			ASTM D1922
MD : 20 μm	91	g	ASTM D1922
MD : 51 μm	110	g	ASTM D1922
TD : 20 μm	310	g	ASTM D1922
TD : 51 μm	220	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			ASTM D2457
20°, 20.3 μm	86		ASTM D2457
20°, 50.8 μm	60		ASTM D2457
Clarity			ASTM D1746
20.3 μm	94.0		ASTM D1746
50.8 μm	94.0		ASTM D1746
Haze			ASTM D1003
20.3 μm	7.4	%	ASTM D1003
50.8 μm	14	%	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:SFDm 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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