

DOW™ LDPE 501I

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

A barefoot resin for clarity and bakery film applications

Optimum gauge range: 1.0 - 3.0 mil

Complies with U.S. FDA 21 CFR 177.1520 (c) 2.1

Complies with U.S. FDA - DMF

Complies with EU, No 10/2011

Complies with Canadian HPFB No Objection (With Limitations)

Consult the regulations for complete details.

General Information			
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 2.1		
	HPFB (Canada) No Objection 2		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.9	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Film Puncture Resistance (51 µm)	4.22	J/cm ³	Internal method
Film strength			ASTM D882
MD : 51 µm	221	J/cm ³	ASTM D882
TD : 51 µm	183	J/cm ³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	12.2	MPa	ASTM D882
TD: Yield, 51 µm	11.8	MPa	ASTM D882
MD: Fracture, 51 µm	25.5	MPa	ASTM D882
TD: Fracture, 51 µm	19.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	650	%	ASTM D882
TD: Fracture, 51 µm	730	%	ASTM D882
Dart Drop Impact (51 µm)	88	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 51 µm	440	g	ASTM D1922
TD : 51 µm	480	g	ASTM D1922

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.2	°C	ASTM D1525
Melting Temperature (DSC)	111	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.8 µm)	76		ASTM D2457
Haze (50.8 µm)	6.7	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	217	°C	
Extrusion instructions			

吹塑薄膜的制造条件:
 螺杆尺寸:2.5 英寸 (63.5 mm) 30:1 L/D
 螺杆类型:单跨双混合
 模具间隙:40 密尔 (1.02 mm)
 熔体温度:422°F (217°C)
 输出:模具周长的 10 磅/小时/英寸
 模具直径:6 英寸
 放大比:2.5:1
 螺杆速度:90 rpm
 冷冻线高度:30 分钟 (762 mm)

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