

DOW™ LDPE 503A

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

A slip and Antiblock additive resin for liners, industrial and clarity

Optimum gauge range: 1.0-3.0 mil

Complies with U.S. FDA 21 CFR 177.1520(c)2.2.

Complies with Canadian HPFB No Objection (With Limitations)

Complies with EU, No 10/2011

Consult the regulations for complete details.

General Information			
Additive	Anti-caking agent (1200 ppm)		
	Sliding agent (750 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
	HPFB (Canada) No Objection 2		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.923	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)	2.81	J/cm ³	Internal method
Film strength			ASTM D882
MD : 51 µm	184	J/cm ³	ASTM D882
TD : 51 µm	190	J/cm ³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	12.0	MPa	ASTM D882
TD: Yield, 51 µm	12.3	MPa	ASTM D882
MD: Fracture, 51 µm	24.8	MPa	ASTM D882
TD: Fracture, 51 µm	20.8	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	520	%	ASTM D882
TD: Fracture, 51 µm	720	%	ASTM D882
Dart Drop Impact (51 µm)	100	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922

MD : 51 μm	560	g	ASTM D1922
TD : 51 μm	470	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)	70		ASTM D2457
Haze (50.8 μm)	7.5	%	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:92 rpm
 冷冻线高度:30 英寸 (792 mm)

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