

DOW™ LLDPE MP 1888.11 Copolymer

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

Octene Copolymer

Linear Low Density Polyethylene

For high speed blown film applications

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

General Information			
Additive	Anti-caking agent (5555 ppm)		
	Sliding agent (1000 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.926	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.6	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Film Puncture Resistance (51 µm)	3.56	J/cm ³	Internal method
Film strength			ASTM D882
MD : 51 µm	256	J/cm ³	ASTM D882
TD : 51 µm	241	J/cm ³	ASTM D882
secant modulus			ASTM D882
2% secant, MD: 51 µm	192	MPa	ASTM D882
2% secant, TD: 51 µm	246	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	12.1	MPa	ASTM D882
TD: Yield, 51 µm	12.8	MPa	ASTM D882
MD: Fracture, 51 µm	38.9	MPa	ASTM D882
TD: Fracture, 51 µm	32.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	750	%	ASTM D882
TD: Fracture, 51 µm	770	%	ASTM D882
Dart Drop Impact (51 µm)	170	g	ASTM D1709B
Elmendorf Tear Strength			ASTM D1922
MD : 51 µm	800	g	ASTM D1922
TD : 51 µm	1200	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	108	°C	ASTM D1525
Melting Temperature (DSC)	122	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.8 µm)	51		ASTM D2457
Haze (50.8 µm)	17	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	202 - 216	°C	
Extrusion instructions			

吹塑薄膜的制造条件:

螺杆尺寸:2.5 英寸 (63.5 mm);24:1 L/D

螺杆类型:带 Maddock Mixer 的 MC-4

模具间隙:40 密尔 (1.0 mm)

熔体温度:395-420°F (202-216°C)

输出:模具周长的 7 磅/小时/英寸

模具直径:6 英寸

放大比:2.5:1

螺杆速度:50 rpm

冷冻线高度:15 英寸 (381 mm)

脱离速度:75 fpm(23 米/分)

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