

DOW™ LLDPE MP 1888 Copolymer

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

Octene copolymer
Linear Low Density Polyethylene
For blown and cast film applications
Complies with:
U.S. FDA 21 CFR 177.1520 (c) 3.2a.
Consult the regulation 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	0.923	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

