

DOWLEX™ 2078G

Polyethylene Resin

The Dow Chemical Company

Message:

Linear Low Density Polyethylene

Good processability at narrow die gaps

High strength in food applications

Complies with:

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

Canadian HPFB No Objection (With Limitations)

EU, No 10/2011

Consult the regulations for complete details.

General Information			
Additive	Processing aid		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
	HPFB (Canada) No Objection 2		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Film Puncture Resistance (20 µm)	14.5	J/cm ³	Internal method
Film strength			ASTM D882
MD : 20 µm	80.5	J/cm ³	ASTM D882
TD : 20 µm	95.5	J/cm ³	ASTM D882
secant modulus			ASTM D882
2% secant, MD: 20 µm	181	MPa	ASTM D882
2% secant, TD: 20 µm	203	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 20 µm	10.3	MPa	ASTM D882
TD: Yield, 20 µm	11.2	MPa	ASTM D882
MD: Break, 20 µm	39.4	MPa	ASTM D882
TD: Break, 20 µm	31.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 20 µm	470	%	ASTM D882
TD: Break, 20 µm	660	%	ASTM D882

Dart Drop Impact (20 μm)	160	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 20 μm	230	g	ASTM D1922
TD : 20 μm	610	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	104	°C	ASTM D1525
Melting Temperature (DSC)	122	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.3 μm)	58		ASTM D2457
Haze (20.3 μm)	8.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	218	°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:MC-4 阻隔

模具间隙:40 密尔 (1 mm)

熔体温度:425°F (218°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:85 rpm

冷冻线高度:20 英寸 (508 mm)

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