

DOWLEX™ 2038.68G

Polyethylene Resin

The Dow Chemical Company

Message:

Linear Low Density Polyethylene

Fast processing on narrow die gaps

For blown film paper product overwrap applications

Complies with:

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

Canadian HPFB No Objection (With Limitations)

EU, No 10/2011

U.S. FDA-DMF

Consult the regulations for complete details.

General Information			
Additive	Processing aid		
Agency Ratings	DMF not rated		
	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	0.935	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 Puncture Resistance (25 µm)	7.69	J/cm ³	Internal method
Film strength			ASTM D882
MD : 25 µm	97.5	J/cm ³	ASTM D882
TD : 25 µm	115	J/cm ³	ASTM D882
secant modulus			ASTM D882
2% secant, MD: 25 µm	377	MPa	ASTM D882
2% secant, TD: 25 µm	348	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	15.2	MPa	ASTM D882
TD: Yield, 25 µm	16.7	MPa	ASTM D882
MD: Break, 25 µm	38.3	MPa	ASTM D882
TD: Break, 25 µm	33.1	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	520	%	ASTM D882

TD: Break, 25 µm	660	%	ASTM D882
Dart Drop Impact (25 µm)	110	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	71	g	ASTM D1922
TD : 25 µm	410	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	120	°C	ASTM D1525
Melting Temperature (DSC)	126	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm)	58		ASTM D2457
Haze (25.4 µm)	7.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	204 - 246	°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:单跨,双混合
 模具间隙:70 密尔 (1.8 mm)
 熔体温度:400-475°F (200-250°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:87.3 rpm
 冷冻线高度:23 英寸 (584 mm)

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