

DOWLEX™ 2027G

Polyethylene Resin
The Dow Chemical Company

Message:

Linear Medium Density Polyethylene
For high speed, thin gauge applications
Improved stiffness
Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a.
Complies with Canadian HPFB No Objection (With Limitations)
Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
	HPFB (Canada) No Objection 2		
Forms	Particle		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.941	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film strength			ASTM D882
MD : 25 µm	113	J/cm ³	ASTM D882
TD : 25 µm	124	J/cm ³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	16.2	MPa	ASTM D882
TD: Yield, 25 µm	10.8	MPa	ASTM D882
MD: Break, 25 µm	39.0	MPa	ASTM D882
TD: Break, 25 µm	28.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	580	%	ASTM D882
TD: Break, 25 µm	740	%	ASTM D882
Dart Drop Impact (25 µm)	43	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	34	g	ASTM D1922
TD : 25 µm	210	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	123	°C	ASTM D1525
Melting Temperature (DSC)	127	°C	Internal method

Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm)	86		ASTM D2457
Haze (25.4 µm)	4.1	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	276	°C	
Extrusion instructions			

铸造薄膜的制造条件:

螺杆尺寸:3.5 英寸 (89 mm);32:1 L/D

熔体温度:529°F (276°C)

螺杆尺寸:2.5 英寸 (63.5 mm);24:1 L/D

熔体温度:515°F (268°C)

冷却辊温度:70°F (21°C)

生产线速度:500 fpm (152 米/分)

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