

DOWLEX™ 2047G

Polyethylene Resin

The Dow Chemical Company

Message:

Linear Low Density Polyethylene

For high performance stretch film applications

Outstanding tear strength, impact strength and toughness

Complies with:

U.S. FDA 21 CFR 177.1520 (c) 3.1a.

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 176.170(c), Table 2.2		
	FDA FCN 424		
	Europe No 10/2011		
Forms	Particle		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.917	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.3	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Film Puncture Resistance (20 µm)	22.1	J/cm ³	Internal method
Film strength			ASTM D882
MD : 20 µm	176	J/cm ³	ASTM D882
TD : 20 µm	171	J/cm ³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 20 µm	8.79	MPa	ASTM D882
TD: Yield, 20 µm	8.16	MPa	ASTM D882
MD: Break, 20 µm	50.1	MPa	ASTM D882
TD: Break, 20 µm	28.8	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 20 µm	460	%	ASTM D882
TD: Break, 20 µm	650	%	ASTM D882
Dart Drop Impact (20 µm)	210	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 20 µm	340	g	ASTM D1922
TD : 20 µm	510	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	97.8	°C	ASTM D1525
Melting Temperature (DSC)	122	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.3 μm)	95		ASTM D2457
Haze (20.3 μm)	0.40	%	ASTM D1003
Extrusion instructions			

铸造薄膜的制造条件:

螺杆尺寸:2.0 英寸 (51 mm);30:1 L/D

熔体温度:524°F (273°C)

螺杆尺寸:2.5 英寸 (63.5 mm);30:1 L/D

熔体温度:525°F (274°C)

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熔体温度:525°F (274°C)

螺杆尺寸:2.5 英寸 (63.5 mm);30:1 L/D

熔体温度:524°F (273°C)

螺杆尺寸:2.0 英寸 (51 mm);30:1 L/D

熔体温度:525°F (274°C)

冷却辊温度:70°F (21°C)

螺杆速度:35 rpm

生产线速度:376 fpm(122 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

