

DOWLEX™ 2045G

Polyethylene Resin
The Dow Chemical Company

Message:

Linear Low Density Polyethylene
For heavy duty applications
Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a.
Consult the regulations for complete details.
DOWLEX™ 2045G Polyethylene Resin is designed for the production of a wide variety of industrial and consumer films . Films made from this resin exhibit a combination of excellent toughness and tear resistance. The product also delivers very good processability on conventional LLDPE machinery.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
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	25	µm	
Film Puncture Energy	5.31	J	Internal method
Film Puncture Force	62.3	N	Internal method
Film Puncture Resistance	26.1	J/cm ³	Internal method
Film strength			ASTM D882
MD	118	J/cm ³	ASTM D882
TD	129	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	237	MPa	ASTM D882
2% secant, MD	205	MPa	ASTM D882
1% secant, TD	275	MPa	ASTM D882
2% secant, TD	232	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	11.3	MPa	ASTM D882
TD: Yield	11.9	MPa	ASTM D882
MD: Fracture	47.4	MPa	ASTM D882
TD: Fracture	40.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	600	%	ASTM D882
TD: Fracture	740	%	ASTM D882
Dart Drop Impact	220	g	ASTM D1709A

Elmendorf Tear Strength ¹			ASTM D1922
MD	370	g	ASTM D1922
TD	630	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	106	°C	ASTM D1525
Melting Temperature (DSC)	119	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss	60		ASTM D2457
Haze	10	%	ASTM D1003
Extrusion instructions			

吹塑薄膜的制造条件:
 螺杆尺寸:3.5 英寸;30:1 L/D
 螺杆类型:DSB II
 模具间隙:70 密尔 (1.8 mm)
 熔体温度: 418°F
 输出:模具周长的 12 磅/小时/英寸
 模具直径:8 英寸
 放大比:2.5:1
 螺杆速度:41 rpm
 冷却线高度: 43 in.

NOTE

1. Method B

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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

