

DOWLEX™ 2042G

Polyethylene Resin
The Dow Chemical Company

Message:

Linear Low Density Polyethylene
Good tear strength, medium stiffness, outstanding toughness
Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a.
Consult the regulations for complete details.

General Information			
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	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	51	µm	
Film Puncture Resistance (25 µm)	10.5	J/cm ³	Internal method
Film strength			ASTM D882
MD : 25 µm	327	J/cm ³	ASTM D882
TD : 25 µm	331	J/cm ³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	15.6	MPa	ASTM D882
TD: Yield, 25 µm	16.7	MPa	ASTM D882
MD: Break, 25 µm	52.6	MPa	ASTM D882
TD: Break, 25 µm	44.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	730	%	ASTM D882
TD: Break, 25 µm	810	%	ASTM D882
Dart Drop Impact (25 µm)	110	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	210	g	ASTM D1922
TD : 25 µm	520	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	117	°C	ASTM D1525
Melting Temperature (DSC)	123	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm)	68		ASTM D2457
Haze (25.4 µm)	9.4	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	236	°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:457°F (236°C)

输出:模具周长的 8 磅/小时/英寸

模具直径:6 英寸

放大比:2.5:1

螺杆速度:65 rpm

冷冻线高度:29 英寸 (737 mm)

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