

DOWLEX™ 2045.11G

Polyethylene Resin
The Dow Chemical Company

Message:

For high speed, thin film applications
Additional thermal stability
Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a.
Complies with Canadian HPFB No Objection (With Limitations)
Complies with EU, No 10/2011
Consult the regulations for complete details.

General Information			
Additive	Anti-caking agent (3000 ppm)		
	Sliding agent (1200 ppm)		
Agency Ratings	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	0.922	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	Internal method
Film Puncture Energy	1.24	J	Internal method
Film Puncture Force	31.1	N	Internal method
Film Puncture Resistance	6.21	J/cm ³	Internal method
Film strength			ASTM D882
MD	110	J/cm ³	ASTM D882
TD	114	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	211	MPa	ASTM D882
2% secant, MD	172	MPa	ASTM D882
1% secant, TD	234	MPa	ASTM D882
2% secant, TD	189	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	13.4	MPa	ASTM D882
TD: Yield	14.1	MPa	ASTM D882

MD: Fracture	46.1	MPa	ASTM D882
TD: Fracture	35.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	540	%	ASTM D882
TD: Fracture	660	%	ASTM D882
Dart Drop Impact	180	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	440	g	ASTM D1922
TD	630	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	104	°C	ASTM D1525
Melting Temperature (DSC)	122	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	34		ASTM D2457
Haze	20	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	216	°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:DSB II

模具间隙:70 密尔 (1.8 mm)

熔体温度:430-450°F (221-232°C)

输出:模具周长的 10 磅/小时/英寸

模具直径:6 英寸

放大比:2.5:1

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