

DOWLEX™ 2645G

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ Polyethylene Resin is designed for the production of a wide variety of film applications. Films made from this resin exhibit a combination of good toughness and tear resistance.

Complies with:

U.S. FDA FCN 741

HPFB (Canada), No Objection

EU, No 10/2011

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA FCN 741		
	HPFB (Canada) No Objection		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.919	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Film Puncture Resistance (51 µm)	16.6	J/cm ³	Internal method
secant modulus			ASTM D882
2% secant, MD: 51 µm	168	MPa	ASTM D882
2% secant, TD: 51 µm	238	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	14.2	MPa	ASTM D882
TD: Yield, 51 µm	14.6	MPa	ASTM D882
MD: Fracture, 51 µm	48.8	MPa	ASTM D882
TD: Fracture, 51 µm	39.2	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	620	%	ASTM D882
TD: Fracture, 51 µm	740	%	ASTM D882
Dart Drop Impact (51 µm)	300	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 51 µm	720	g	ASTM D1922
TD : 51 µm	1000	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	107	°C	ASTM D1525
Melting Temperature (DSC)	120	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.8 µm)	63		ASTM D2457
Haze (50.8 µm)	12	%	ASTM D1003
Extrusion instructions			

吹塑薄膜的制造条件:

螺杆尺寸:2.5 英寸 (63.5 mm) 30:1 L/D

螺杆类型:DSBII

模具间隙:70 密尔 (1.8 mm)

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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