

DOWLEX™ 2036G

Polyethylene Resin

The Dow Chemical Company

Message:

Linear Low Density Polyethylene

Improved thermal stability for high stiffness film applications

Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a

Complies with U.S. FDA-DMF

Complies with Canadian HPFB No Objection (With Limitations)

Complies with EU, No 10/2011

Complies with Japan Hygienic Olefin and Styrene Plastics Association

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
	HPFB (Canada) No Objection 2		
	JHOSPA not rated		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.935	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Puncture Resistance (25 µm)	10.3	J/cm ³	Internal method
Film strength			ASTM D882
MD : 25 µm	324	J/cm ³	ASTM D882
TD : 25 µm	308	J/cm ³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	16.9	MPa	ASTM D882
TD: Yield, 25 µm	17.6	MPa	ASTM D882
MD: Break, 25 µm	59.2	MPa	ASTM D882
TD: Break, 25 µm	39.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	620	%	ASTM D882
TD: Break, 25 µm	750	%	ASTM D882
Dart Drop Impact (25 µm)	57	g	ASTM D1709A

Elmendorf Tear Strength			ASTM D1922
MD : 25 μm	83	g	ASTM D1922
TD : 25 μm	290	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	119	°C	ASTM D1525
Melting Temperature (DSC)	125	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 μm)	90		ASTM D2457
Haze (25.4 μm)	2.6	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	274	°C	
Extrusion instructions			

铸造薄膜的制造条件:在 5 层铸造线上生产的单层铸造薄膜:

螺杆尺寸:2 英寸 (51 mm);30:1 L/D

螺杆尺寸:2.5 英寸 (63.5 mm);30:1 L/D

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螺杆尺寸:2 英寸 (51 mm);30:1 L/D

模具间隙:25 密尔 (0.6 mm)

冷却辊温度:70°F (21°C)

熔体温度:525°F (274°C)

生产线速度:600 fpm(183 米/分)

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