

DOWLEX™ 2037

Polyethylene Resin
The Dow Chemical Company

Message:

Diaper back sheet
For high stiffness film applications
Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a.
Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a HPFB (Canada) No Objection 2		
Forms	Particle		
Processing Method	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)	7.20	J/cm ³	Internal method
Film strength			ASTM D882
MD : 25 µm	128	J/cm ³	ASTM D882
TD : 25 µm	140	J/cm ³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	18.0	MPa	ASTM D882
TD: Yield, 25 µm	18.3	MPa	ASTM D882
MD: Break, 25 µm	56.4	MPa	ASTM D882
TD: Break, 25 µm	33.8	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	480	%	ASTM D882
TD: Break, 25 µm	740	%	ASTM D882
Dart Drop Impact (25 µm)	45	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	28	g	ASTM D1922
TD : 25 µm	720	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	119	°C	ASTM D1525
Melting Temperature (DSC)	124	°C	Internal method
Optical	Nominal Value	Unit	Test Method

Gloss (45°, 25.4 µm)	88		ASTM D2457
Haze (25.4 µm)	3.2	%	ASTM D1003

Extrusion instructions

铸造薄膜的制造条件:
螺杆尺寸:3.5 英寸 (89 mm);32:1 L/D
螺杆类型:Sterlex
熔体温度:527°F (275°C)
螺杆尺寸:2.5 英寸 (63.5 mm);24:1 L/D
螺杆类型:带 Maddock Mixer 的单跨型
熔体温度:527°F (275°C)
螺杆尺寸:2.0 英寸 (51 mm);24:1 L/D
螺杆类型:单跨
熔体温度:526°F (274°C)
冷却辊温度:70°F (21°C)
生产线速度:601 fpm(183 米/分)

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