

DOWLEX™ 2049P

Polyethylene Resin
The Dow Chemical Company

Message:

Linear Low Density Polyethylene
Excellent tear strength and medium stiffness
Outstanding toughness and puncture resistance for films used in food contact applications
Superior color stability
Complies with
U.S. FDA 21 CFR 177.1520 (c) 3.1a.
Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.926	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	38	µm	
Film Puncture Resistance (38 µm)	3.06	J/cm ³	Internal method
Film strength			ASTM D882
MD : 38 µm	128	J/cm ³	ASTM D882
TD : 38 µm	140	J/cm ³	ASTM D882
secant modulus			ASTM D882
2% secant, MD: 38 µm	235	MPa	ASTM D882
2% secant, TD: 38 µm	281	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm	13.2	MPa	ASTM D882
TD: Yield, 38 µm	14.8	MPa	ASTM D882
MD: Fracture, 38 µm	47.8	MPa	ASTM D882
TD: Fracture, 38 µm	42.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 38 µm	630	%	ASTM D882
TD: Fracture, 38 µm	740	%	ASTM D882
Dart Drop Impact (25 µm)	220	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 38 µm	250	g	ASTM D1922
TD : 38 µm	590	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	112	°C	ASTM D1525

Melting Temperature (DSC)	121	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.1 µm)	80		ASTM D2457
Haze (38.1 µm)	9.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	207 - 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:带 Maddock Mixer 的 MC-4

模具间隙:40 密尔 (1.0 mm)

熔体温度:405-420°F (207-216°C)

输出:模具周长的 7 磅/小时/英寸

模具直径:6 英寸

放大比:2.5:1

螺杆速度:50 rpm

冷冻线高度:16 英寸 (406 mm)

脱离速度:74 fpm(22 米/分)

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