

DOW™ LLDPE 1048P

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW™ LLDPE 1048P is a butene copolymer linear low density polyethylene resin.

Main Characteristic:

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

Applications

Blown film

Cast film

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Blow film		
	cast film		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
Film Puncture Resistance (38 µm)	5.00	J/cm ³	Internal method
secant modulus			ASTM D882
2% secant, MD: 38 µm	150	MPa	ASTM D882
2% secant, TD: 38 µm	145	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm	10.0	MPa	ASTM D882
TD: Yield, 38 µm	10.0	MPa	ASTM D882
MD: Fracture, 38 µm	33.0	MPa	ASTM D882
TD: Fracture, 38 µm	25.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 38 µm	950	%	ASTM D882
TD: Fracture, 38 µm	1100	%	ASTM D882
Dart Drop Impact (38 µm)	140	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 38 µm	220	g	ASTM D1922
TD : 38 µm	330	g	ASTM D1922

Optical	Nominal Value	Unit	Test Method
Gloss (45°, 37.5 µm)	53		ASTM D2457
Haze (37.5 µm)	13	%	ASTM D1003

Extrusion	Nominal Value	Unit
Melt Temperature	206	°C
Extrusion instructions		

吹塑薄膜的制造条件:
熔体温度:206℃
螺杆尺寸:60 mm;32:1 L/D
螺杆类型:单混
模具间隙:1.8 mm
输出:46Kg/h
模具直径:150mm
放大比:2.5:1
螺杆速度:60rpm
冷冻线高度:50cm
冷却空气温度:20℃

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

