

DOWLEX™ 2098P

Polyethylene Resin
The Dow Chemical Company

Message:

Excellent tear strength and medium stiffness
Outstanding toughness and puncture resistance
For blown film extrusion
Complies with U.S. FDA 21 CFR 177.1520 (c) 3.1a.
Consult the regulations for complete details.
DOWLEX 2098P Polyethylene Resin is a formulated linear low density resin offering excellent tear strength, medium stiffness, outstanding toughness and puncture resistance for films used in food contact applications. When used unmodified and processed according to good manufacturing practices, this resin is technically suitable for food contact end use.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Blow film		
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	
Tensile Strength			ASTM D882
MD: Yield, 38 µm	12.8	MPa	ASTM D882
TD: Yield, 38 µm	15.2	MPa	ASTM D882
MD: Fracture, 38 µm	39.6	MPa	ASTM D882
TD: Fracture, 38 µm	34.1	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 38 µm	670	%	ASTM D882
TD: Fracture, 38 µm	780	%	ASTM D882
Dart Drop Impact (38 µm)	220	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 38 µm	240	g	ASTM D1922
TD : 38 µm	730	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	106	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.1 µm)	45		ASTM D2457
Haze (38.1 µm)	15	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	221 - 243	°C	

Extrusion instructions

吹塑薄膜的制造条件:

熔体温度:430-470°F (220-240°C)

放大比:2:1

厚度:0.5-3.0 密尔

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