

# DOWLEX™ 2107B

Polyethylene Resin

The Dow Chemical Company

## Message:

DOWLEX™ 2107B Polyethylene Resin with Extra Stretch Performance is an Ethylene-1-Octene copolymer designed for cast film applications, such as industrial pallet wrap. DOWLEX 2107B provides stretch film with superior extensibility and increased resistance to failure around film flaws while maintaining exceptional puncture resistance and load retention.

Main Characteristics:

Industrial stretch film

Film for products for adult incontinence

Film for products for feminine hygiene

Complies with:

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

EU, No 10/2011

Consult the regulations for complete details.

Suitable for food contact, Report # 927/09 issued by INAL according to MERCOSUR.

General Information			
Agency Ratings		FDA 21 CFR 177.1520(c) 3.2a	
		Europe No 10/2011	
Forms		Particle	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.6	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Puncture Resistance (22 µm)	157	J/cm <sup>3</sup>	Internal method
secant modulus			ASTM D882
2% secant, MD: 22 µm	189	MPa	ASTM D882
2% secant, TD: 22 µm	196	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 22 µm	10.9	MPa	ASTM D882
TD: Yield, 22 µm	10.8	MPa	ASTM D882
MD: Break, 22 µm	30.3	MPa	ASTM D882
TD: Break, 22 µm	28.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	590	%	ASTM D882
TD: Fracture	870	%	ASTM D882
Dart Drop Impact (22 µm)	100	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 22 µm	160	g	ASTM D1922
TD : 22 µm	710	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method

Gloss (45°, 22.0 μm)	78		ASTM D2457
Haze (22.0 μm)	5.2	%	ASTM D1003

#### Additional Information

22 um 薄膜挤出铸造的推荐加工条件:

熔体温度:220 - 280C

冷却辊温度:15 - 60C

生产线速度:150 - 600 米/分

厚度:10 - 60 微米

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