

DOW™ LLDPE 1050B

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

LLDPE 1050B is a Linear Low Density Polyethylene Resin 1-Butene copolymer, produced in the Solution process. This resin is designed to be used in cast extrusion to produce films for stretch and health & hygiene applications.

Complies with:

European Commission Regulation (EU) No 10/2011

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

Consult the regulation for complete details

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/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	24	µm	
Film Puncture Resistance (24 µm)	11.1	J/cm³	Internal method
secant modulus			ASTM D882
2% secant, MD: 24 µm	194	MPa	ASTM D882
2% secant, TD: 24 µm	174	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 24 µm	33.6	MPa	ASTM D882
TD: Yield, 24 µm	18.1	MPa	ASTM D882
MD: Break, 24 µm	6.00	MPa	ASTM D882
TD: Break, 24 µm	5.20	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 24 µm	560	%	ASTM D882
TD: Break, 24 µm	870	%	ASTM D882
Dart Drop Impact (24 µm)	50	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 24 µm	52	g	ASTM D1922
TD : 24 µm	260	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 23.9 µm)	93		ASTM D2457
Haze (23.9 µm)	0.94	%	ASTM D1003
Extrusion instructions			

Processing Conditions for cast film analyzed:

Die gap: 31.5 mil (0.8 mm)

Melt Temperature: 455°F (235°C)

Chill Roll Temperature: 64.4°F (18°C)

Haul Off Speed: 15 m/min

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Recommended distributors for this material

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

