

DOWLEX™ 2050B

High Density Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ 2050B Polyethylene Resin is a High Density Polyethylene, 1-Octene Copolymer, produced in the SOLUTION™ technology.

Main Applications:

Films that require high stiffness

Monofilaments

Complies with:

U.S. FDA 21 177 1520 (c) 3.2a

EU, No 10/2011

Consult the regulations 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
Density	0.950	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.95	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Film Puncture Resistance (51 µm)	1.21	J/cm³	Internal method
secant modulus			ASTM D882
2% secant, MD: 51 µm	573	MPa	ASTM D882
2% secant, TD: 51 µm	726	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	24.1	MPa	ASTM D882
TD: Yield, 51 µm	30.1	MPa	ASTM D882
MD: Fracture, 51 µm	42.2	MPa	ASTM D882
TD: Fracture, 51 µm	41.8	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	1100	%	ASTM D882
TD: Fracture, 51 µm	1200	%	ASTM D882
Dart Drop Impact (51 µm)	120	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 51 µm	40	g	ASTM D1922
TD : 51 µm	110	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.8 µm)	45		ASTM D2457
Haze (50.8 µm)	23	%	ASTM D1003

Extrusion instructions

Processing Conditions for blown film:

Die gap: 70 mil (1.8 mm)

Melt temperature: 457°F (236°C)

Blow-up Ratio: 2.5:1

Speed: 40 rpm

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