

DOWLEX™ GM 8070G

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ GM 8070G Polyethylene Resin is suitable for a wide variety of blown film applications with good processability, superior extensibility and good physical properties.

Main Characteristics

Superior extensibility

High strength and good optical properties

Complies with:

U.S. FDA FCN 741

Consult the regulations for complete details

General Information			
Agency Ratings	FDA FCN 741		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.917	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Elongation (Break)	510	%	ASTM D882
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Film Puncture Resistance	16.1	J/cm ³	Internal method
secant modulus			ASTM D882
2% secant, MD	353	MPa	ASTM D882
2% secant, TD	319	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	17.3	MPa	ASTM D882
TD: Yield	18.1	MPa	ASTM D882
MD: Fracture	87.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	510	%	ASTM D882
TD: Fracture	490	%	ASTM D882
Dart Drop Impact	450	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	320	g	ASTM D1922
TD	490	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	103	°C	ASTM D1525

Melting Temperature (DSC)	121	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.3 μm)	54		ASTM D2457
Haze (20.3 μm)	10	%	ASTM D1003
Extrusion instructions			

Fabrication Conditions For Blown Film:
 Machine: Monolayer blown film extrusion line
 Monolayer Film (0.8mil)
 Screw Size: 2.5 inch (63.5 mm) 30:1 L/D
 Screw Type: DSBII
 Die Gap: 70 mil
 Output: 10 lbs/hr./in. of die circumference
 Die Diameter: 6 in.
 Blow-up Ratio: 2.5 : 1

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