

DOWLEX™ GM 8071G

Experimental Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ GM 8071G Polyethylene Resin is designed for use in a wide variety of film applications, in special for high strength consumer trash bags/liners. This product can be used in other applications that require toughness and also offers great melt strength for high throughput rates.

Main Characteristics

High toughness, processability and good optical properties

Complies with:

U.S. FDA FCN 741

Consult the regulations for complete details

General Information			
Additive	Processing aid		
	Anti-caking agent		
	slip agent		
Agency Ratings	FDA FCN 741		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	23	µm	
Film Puncture Resistance	13.4	J/cm³	Internal method
secant modulus			ASTM D882
2% secant, MD	171	MPa	ASTM D882
2% secant, TD	187	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	9.38	MPa	ASTM D882
TD: Yield	9.38	MPa	ASTM D882
MD: Fracture	29.1	MPa	ASTM D882
TD: Fracture	20.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	420	%	ASTM D882
TD: Fracture	500	%	ASTM D882
Dart Drop Impact	670	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	330	g	ASTM D1922
TD	490	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	106	°C	ASTM D1525
Melting Temperature (DSC)	118	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.3 μm)	45		ASTM D2457
Haze (20.3 μm)	17	%	ASTM D1003
Extrusion instructions			

Fabrication Conditions For Blown Film:

Machine: Monolayer blown film extrusion line

Monolayer Film (0.9mil)

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: 8 in.

Blow-up Ratio: 2.5 : 1

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