

DOWLEX™ GM 8085

The Dow Chemical Company - Linear Low Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

DOWLEXTM GM 8085 Polyethylene Resin is designed for use in a wide variety of film applications, in special FFS and lamination multilayered films combining excellent optical properties, enhanced mechanicals, broad sealing window and an additive package designed to enhance COF stability.

Main Characteristics:

- · High toughness, broad sealing window, processability and optical properties
- · Fully formulated, enhanced COF stability

Complies with:

• U.S. FDA FCN 741

Consult the regulations for complete details.

General				
Material Status	Commercial: Active			
Availability	• Europe	Latin America	North America	
Additive	Antiblock: 2500 ppm	Processing Aid: No	• Slip: 1000 ppm	
Agency Ratings	• FDA FCN 741			
Forms	Pellets			

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density / Specific Gravity	0.921		ASTM D792		
Melt Mass-Flow Rate (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238		
Films	Nominal Value	Unit	Test Method		
Film Thickness - Tested ²	2	mil			
Film Puncture Resistance	387	ft·lb/in³	Internal Method		
Secant Modulus - 2% Secant, MD	22900	psi	ASTM D882		
Secant Modulus - 2% Secant, TD	26100	psi	ASTM D882		
Tensile Strength - MD (Yield)	1000	psi	ASTM D882		
Tensile Strength - TD (Yield)	1040	psi	ASTM D882		
Tensile Strength - MD (Break)	6610	psi	ASTM D882		
Tensile Strength - TD (Break)	5410	psi	ASTM D882		
Tensile Elongation - MD (Break)	850	%	ASTM D882		
Tensile Elongation - TD (Break)	840	%	ASTM D882		
Dart Drop Impact	750	g	ASTM D1709A		
Elmendorf Tear Strength - MD	940	g	ASTM D1922		
Elmendorf Tear Strength - TD	1100	g	ASTM D1922		
Thermal	Nominal Value	Unit	Test Method		
Vicat Softening Temperature	223	°F	ASTM D1525		
Melting Temperature (DSC)	244	°F	Internal Method		
Optical	Nominal Value	Unit	Test Method		
Gloss	68		ASTM D2457		
Haze (1.97 mil)	7.30	%	ASTM D1003		



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Processing Information

Extrusion Notes

Fabrication Conditions For Blown Film:

· Machine: Monolayer blown film extrusion line

Monolayer Film (50 microns)Screw Size: 25 mm 25:1 L/D

Die Gap: 1.8 mmOutput: 15 kg/hrDie Diameter: 80mmBlow-up Ratio: 2.5 : 1

Notes

¹ Typical properties: these are not to be construed as specifications.



² Blown