

# DOWLEX™ 2107GC

Linear Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

DOWLEX™ 2107GC is processable at high line speeds. Films made from DOWLEX 2107GC Polyethylene Resin exhibit excellent stretchability, outstanding tear and impact resistance, as well as exceptional optical properties.

Main Characteristics:

Linear Low Density Polyethylene

Applications:

Cast Stretch Wrap Film

Complies with:

U.S. FDA FCN 424

EU, No 10/2011

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA FCN 424		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.917	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.3	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	23	µm	
Tensile Strength <sup>1</sup>			ASTM D882
MD: Yield, 23 µm	6.30	MPa	ASTM D882
TD: Yield, 23 µm	5.90	MPa	ASTM D882
MD: Break, 23 µm	43.0	MPa	ASTM D882
TD: Break, 23 µm	28.0	MPa	ASTM D882
Tensile Elongation <sup>2</sup>			ASTM D882
MD: Break, 23 µm	470	%	ASTM D882
TD: Break, 23 µm	900	%	ASTM D882
Dart Drop Impact <sup>3</sup> (23 µm)	200	g	ASTM D1709A
Elmendorf Tear Strength <sup>4</sup>			ASTM D1922
MD : 23 µm	410	g	ASTM D1922
TD : 23 µm	540	g	ASTM D1922
Film tensile properties-maximum stretch to penetration <sup>5</sup>	130	%	Internal method
Film Tensile Properties-Maximum Elongation <sup>6</sup>	240	%	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 23.0 µm)	92		ASTM D2457

Haze (23.0 μm)	0.70	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	220 - 280	°C	
Extrusion instructions			
Fabrication Conditions For Cast Film: Melt Temperature: 220-280°C Chill Roll Temperature: 20-60°C Line Speed 150-450 m/min Recommended Gauge Range: 10-60 μm			
NOTE			
1.	Cast film, 250 m/min; Chill roll 25°C.		
2.	Cast film, 250 m/min; Chill roll 25°C.		
3.	Cast film, 250 m/min; Chill roll 25°C.		
4.	Method B; Cast film, 250 m/min; Chill roll 25°C.		
5.	Cast film, 250 m/min; Chill roll 25°C; Measured on test stand; Max pre-strech before sharp probe penetrates.		
6.	Cast film, 250 m/min; Chill roll 25°C; Measured on test stand.		

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