

DOWLEX™ 2106GC

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ 2106GC is processable at high line speeds. Films made from DOWLEX 2106GC Polyethylene Resin exhibit excellent stretchability, tear and impact resistance, as well as exceptional optical properties.

Applications:

Cast Stretch Wrap Film

Main Characteristics:

Linear Low Density Polyethylene

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 ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.3	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	23	µm	
Tensile Strength ¹			ASTM D882
MD: Yield, 23 µm, extruded film	6.20	MPa	ASTM D882
TD: Yield, 23 µm, extruded film	5.50	MPa	ASTM D882
MD: Fracture, 23 µm, extruded film	38.0	MPa	ASTM D882
TD: Fracture, 23 µm, extruded film	21.0	MPa	ASTM D882
Tensile Elongation ²			ASTM D882
MD: Fracture, 23 µm, extruded film	500	%	ASTM D882
TD: Fracture, 23 µm, extruded film	780	%	ASTM D882
Dart Drop Impact ³ (23 µm, Cast Film)	140	g	ASTM D1709A
Elmendorf Tear Strength ⁴			ASTM D1922
MD: 23 µm, cast film	320	g	ASTM D1922
TD: 23 µm, cast film	530	g	ASTM D1922
Film tensile properties-maximum stretch to penetration-Cast Film ⁵ (23.0 µm)	160	%	Internal method
Film tensile properties-maximum elongation-Cast Film ⁶ (23.0 µm)	260	%	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss ⁷ (45°, 23.0 µm, Cast Film)	93		ASTM D2457

Haze ⁸ (23.0 μm, Cast Film)	0.60	%	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 Haul-Off Speed: 150 - 450 m/min Recommended Gauge Range: 10 - 60 μm			
NOTE			
1.	250 m/min; Chill roll 25°C		
2.	250 m/min; Chill roll 25°C		
3.	250 m/min; Chill roll 25°C		
4.	Method B; 250 m/min; Chill roll 25°C		
5.	250 m/min; Chill roll 25°C; Measured on test stand; Max pre-stretch before sharp probe penetrates		
6.	250 m/min; Chill roll 25°C; Measured on test stand		
7.	250 m/min; Chill roll 25°C		
8.	250 m/min; Chill roll 25°C		

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