

DOWLEX™ SC 2106G

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ SC 2106G is processable at high line speeds. Films made from DOWLEX SC 2106G 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		
Processing Method	cast film		
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	6.20	MPa	ASTM D882
TD: Yield, 23 µm	5.50	MPa	ASTM D882
MD: Break, 23 µm	38.0	MPa	ASTM D882
TD: Break, 23 µm	21.0	MPa	ASTM D882
Tensile Elongation ²			ASTM D882
MD: Break, 23 µm	500	%	ASTM D882
TD: Break, 23 µm	780	%	ASTM D882
Dart Drop Impact ³ (23 µm)	140	g	ASTM D1709A
Elmendorf Tear Strength ⁴			ASTM D1922
MD : 23 µm	320	g	ASTM D1922
TD : 23 µm	530	g	ASTM D1922
Film tensile properties-maximum stretch to penetration ⁵	155		Internal method
Film Tensile Properties-Maximum Elongation ⁶	260	%	Internal method
Optical	Nominal Value	Unit	Test Method

Gloss ⁷ (45°, 23.0 μm)	93		ASTM D2457
Haze ⁸ (23.0 μm)	0.60	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	220 - 280	°C	
Extrusion instructions			

铸造薄膜的制造条件:
熔体温度:220-280°C
冷却辊温度:20-60°C
脱离速度:150-450 米/分
建议的厚度范围:10-60 μm

NOTE	
1.	Cast film, 250 m/min; Cooling roller 25 c.
2.	Cast film, 250 m/min; Cooling roller 25 c.
3.	Cast film, 250 m/min; Cooling roller 25 c.
4.	Method B; Cast film, 250 m/min; Cooling roller 25 c.
5.	Cast film, 250 m/min, cooling roller 25°C; Measured on test bench; Maximum prestretching before penetration of sharp probe.
6.	Cast film, 250 m/min, cooling roller 25°C; Measured on the test bench.
7.	Cast film, 250 m/min; Cooling roller 25 c.
8.	Cast film, 250 m/min; Cooling roller 25 c.

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