

DOWLEX™ SC 2107G

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™SC 2107G is suitable for processing of high-speed production lines. The film prepared with DOWLEX SC 2107G polyethylene resin has excellent tensile properties, excellent tear strength and impact resistance, and excellent optical properties.

Main features:

Linear low density polyethylene

Application field:

cast stretch wrapping film

Meet the requirements of the following regulations:

U.S. Food and Drug Administration (U.S. FDA) FCN 424

European Union (EU) No 10/2011

please refer to the regulations for detailed information.

General Information			
Agency Ratings	FDA FCN 424		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Film extrusion		
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)	2.3	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	6.30	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 ²			ASTM D882
MD: Break, 23 µm	470	%	ASTM D882
TD: Break, 23 µm	900	%	ASTM D882
Dart Drop Impact ³ (23 µm)	200	g	ASTM D1709A
Elmendorf Tear Strength ⁴			ASTM D1922
MD : 23 µm	410	g	ASTM D1922
TD : 23 µm	540	g	ASTM D1922
Film tensile properties-maximum stretch to penetration ⁵	130		Internal method
Film Tensile Properties-Maximum Elongation ⁶	240	%	Internal method
Optical	Nominal Value	Unit	Test Method

Gloss ⁷ (45°, 23.0 µm)	92		ASTM D2457
Haze ⁸ (23.0 µm)	0.70	%	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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