

DOWLEX™ SC 2111G

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ SC 2111G polyethylene resin is specially used in large/high-yield cast film production lines to prepare high-performance industrial stretched films.

The film prepared by DOWLEX SC 2111G polyethylene resin has excellent balance in processing properties, mechanical properties and tensile properties. DOWLEX SC 211G polyethylene resin is used as a core layer resin in the co-extrusion cast film structure, and a self-adhesive resin is co-extruded to prepare a film with a thickness between 10 and 35 microns.

When used in the application field of food contact, DOWLEX SC 211G polyethylene resin should comply with the requirements of the U.S. Food and Drug Administration Regulation 21 CFR 177.1520 and the requirements of the food contact regulations of most European countries without modification and when the processing process follows the requirements of good manufacturing practices. Please contact your nearest Dow representative for proof of compliance with the Food Contact Act. The purchaser remains responsible for determining whether the use of its products complies with all relevant regulations.

Application field:

cast stretch film for tray

General Information			
Agency Ratings		FDA 21 CFR 177.1520(c) 3.2a	
		Europe No 10/2011	
Forms		Particle	
Processing Method		cast film	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.7	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	23	µm	
Film Puncture Force ¹ (23 µm)	31.0	N	Internal method
Tensile Stress ²			ISO 527-3
MD: Yield, 23 µm	5.80	MPa	ISO 527-3
TD: Yield, 23 µm	6.00	MPa	ISO 527-3
MD: Break, 23 µm	34.0	MPa	ISO 527-3
TD: Break, 23 µm	25.0	MPa	ISO 527-3
Tensile Elongation ³			ISO 527-3
MD: Break, 23 µm	430	%	ISO 527-3
TD: Break, 23 µm	690	%	ISO 527-3
Dart Drop Impact ⁴ (23 µm)	110	g	ISO 7765-1/A
Elmendorf Tear Strength ⁵			ASTM D1922
MD : 23 µm	170	g	ASTM D1922
TD : 23 µm	550	g	ASTM D1922
Film tensile properties-maximum tensile force	36000	g	Internal method

Film Tensile Properties-Maximum Elongation	350	%	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss ⁶ (45°, 23.0 μm)	93		ASTM D2457
Haze ⁷ (23.0 μm)	0.60	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	250	°C	
Extrusion instructions			

铸造薄膜的制造条件:
 冷却辊温度:25°C
 熔体温度:250°C
 建议的厚度范围:10 至 35 μm

NOTE	
1.	Cast film manufactured at 250 m/min.
2.	Cast film manufactured at 250 m/min.
3.	Cast film manufactured at 250 m/min.
4.	Cast film manufactured at 250 m/min.
5.	Cast film manufactured at 250 m/min.
6.	Cast film manufactured at 250 m/min.
7.	Cast film manufactured at 250 m/min.

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