

DOWLEX™ 2111GC

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ 2111GC Polyethylene Resin is specifically designed for large/high output cast film lines to make high performance industrial stretch films. Films made from DOWLEX 2111GC Polyethylene Resin exhibit an excellent balance of processability, mechanical and stretchability performance properties.

DOWLEX 2111GC Polyethylene Resin is to be used as a core resin in coextruded cast film structures together with a cling resin for films in the thickness range between 10 and 35 microns.

Applications:

Cast Stretch Film for pallets

Complies with:

European Commission Regulation (EU) No 10/2011

U.S. FDA 21 CFR 177.1520(c)3.2a

Consult the regulations for complete details

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm³	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 ⁶ (23.0 µm)	36000	g	Internal method
Film Tensile Properties-Maximum Elongation ⁷ (23.0 µm)	350	%	Internal method

Optical	Nominal Value	Unit	Test Method
Gloss ⁸ (45°, 23.0 μm)	93		ASTM D2457
Haze ⁹ (23.0 μm)	0.60	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	250	°C	
Extrusion instructions			

Fabrication Conditions For Cast Films:

Chill Roll Temperature: 25°C

Melt Temperature: 250°C

Recommended Gauge Range: 10 to 35 μm

NOTE

- | | |
|----|-----------------------------------|
| 1. | Cast film fabricated at 250 m/min |
| 2. | Cast film fabricated at 250 m/min |
| 3. | Cast film fabricated at 250 m/min |
| 4. | Cast film fabricated at 250 m/min |
| 5. | Cast film fabricated at 250 m/min |
| 6. | Cast film fabricated at 250 m/min |
| 7. | Cast film fabricated at 250 m/min |
| 8. | Cast film fabricated at 250 m/min |
| 9. | Cast film fabricated at 250 m/min |

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