



DOWLEX™ 2111GC

Linear Low Density Polyethylene Resin

Overview 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

Additive • Antiblock: No • Slip: No • Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.920 g/cm ³	0.920 g/cm ³	ASTM D792
Base Density ¹	0.920 g/cm ³	0.920 g/cm ³	Dow Method
Melt Index (190°C/2.16 kg)	3.7 g/10 min	3.7 g/10 min	ISO 1133
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1 mil	23 µm	
Film Puncture Force ² (0.91 mil (23 µm))	6.97 lbf	31.0 N	Dow Method
Tensile Stress ²			ISO 527-3
MD : Yield, 0.91 mil (23 µm)	841 psi	5.80 MPa	
TD : Yield, 0.91 mil (23 µm)	870 psi	6.00 MPa	
MD : Break, 0.91 mil (23 µm)	4930 psi	34.0 MPa	
TD : Break, 0.91 mil (23 µm)	3630 psi	25.0 MPa	
Tensile Elongation ²			ISO 527-3
MD : Break, 0.91 mil (23 µm)	430 %	430 %	
TD : Break, 0.91 mil (23 µm)	690 %	690 %	
Dart Drop Impact ² (0.91 mil (23 µm))	110 g	110 g	ISO 7765-1/A
Elmendorf Tear Strength ²			ASTM D1922
MD : 0.91 mil (23 µm)	170 g	170 g	
TD : 0.91 mil (23 µm)	550 g	550 g	
Film Stretch Performance - Max Elongation ²			Dow Method
0.9 mil (23.0 µm)	350 %	350 %	
Film Stretch Performance - Max Stretch Force ²			Dow Method
0.9 mil (23.0 µm)	36000 g	36000 g	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss ² (45°, 0.906 mil (23.0 µm))	93	93	ASTM D2457
Haze ² (0.906 mil (23.0 µm))	0.600 %	0.600 %	ASTM D1003
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	482 °F	250 °C	



Extrusion Notes

Fabrication Conditions For Cast Films:

- Chill Roll Temperature: 25°C
- Melt Temperature: 250°C
- Recommended Gauge Range: 10 to 35 µm

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

² Cast film fabricated at 250 m/min

