

DOWLEX™ 2607GC

Linear Low Density Polyethylene Resin

Overview

DOWLEX 2607 GC Polyethylene Resin is specifically designed for large/high output cast film lines to make high performance industrial stretch films.

Films made from DOWLEX 2607 GC Polyethylene Resin exhibit an excellent balance of processability, mechanical and stretchability performance properties.

DOWLEX 2607 GC Polyethylene Resin is to be used as a core resin in coextruded cast film structures for films in the thickness range between 10 and 35 microns.

Complies with:

- EU, No10/2011
- U.S. FDA FCN 741

Consult the regulations for complete details.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.918 g/cm³	0.918 g/cm³	ASTM D792
Base Density ¹	0.920 g/cm³	0.920 g/cm³	Dow Method
Melt Index (190°C/2.16 kg)	2.3 g/10 min	2.3 g/10 min	ISO 1133
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	0.91 mil	23 µm	
Film Puncture Energy (0.91 mil (23 µm))	1420 in·lb	160 J	
Film Puncture Force (0.91 mil (23 µm))	9.89 lbf	44.0 N	
Tensile Strength			ASTM D882
MD : Yield, 0.91 mil (23 µm)	1160 psi	8.00 MPa	
TD : Yield, 0.91 mil (23 µm)	1160 psi	8.00 MPa	
MD : Break, 0.91 mil (23 µm)	5080 psi	35.0 MPa	
TD : Break, 0.91 mil (23 µm)	4210 psi	29.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 0.91 mil (23 µm)	460 %	460 %	
TD : Break, 0.91 mil (23 µm)	700 %	700 %	
Dart Drop Impact (0.91 mil (23 µm))	150 g	150 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 0.91 mil (23 µm)	190 g	190 g	
TD : 0.91 mil (23 µm)	420 g	420 g	
Film Stretch Performance - Max Elongation			Dow Method
0.9 mil (23.0 µm)	350 %	350 %	
Film Stretch Performance - Max Stretch Force			Dow Method
0.9 mil (23.0 µm)	37000 g	37000 g	

Additional Information

Film Properties: Cast Film fabrication at 250 m/min.

Extrusion Notes

Fabrication Conditions For Cast Film Extrusion:

- Chill Roll Temperature: 20 - 40°C
- Melt Temperature: 220 - 280°C
- Recommended Gauge Range: 10 - 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.

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