



DOWLEX™ 2607G

Polyethylene Resin

Overview

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

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

DOWLEX 2607G 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 Wrap Film

Complies with:

- EU, No 10/2011
- U.S. FDA FCN 751
- 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/cm ³	0.918 g/cm ³	ASTM D792
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	ASTM D5748
Film Puncture Force (0.91 mil (23 µm))	9.89 lbf	44.0 N	ASTM D5748
Tensile Strength ¹			ASTM D882
MD : Yield, 0.91 mil (23 µm), Cast Film	1160 psi	8.00 MPa	
TD : Yield, 0.91 mil (23 µm), Cast Film	1160 psi	8.00 MPa	
MD : Break, 0.91 mil (23 µm), Cast Film	5080 psi	35.0 MPa	
TD : Break, 0.91 mil (23 µm), Cast Film	4210 psi	29.0 MPa	
Tensile Elongation ¹			ASTM D882
MD : Break, 0.91 mil (23 µm), Cast Film	460 %	460 %	
TD : Break, 0.91 mil (23 µm), Cast Film	700 %	700 %	
Dart Drop Impact			ISO 7765-1/A
0.91 mil (23 µm), Cast Film	150 g	150 g	
Elmendorf Tear Strength			ASTM D1922
MD : 0.91 mil (23 µm), Cast Film	190 g	190 g	
TD : 0.91 mil (23 µm), Cast Film	420 g	420 g	
Film Stretch Performance - Max Elongation	350 %	350 %	Dow Method
Film Stretch Performance - Max Stretch Force	37000 g	37000 g	Dow Method

Additional Information

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

Extrusion	Nominal Value (English)	Nominal Value (SI)
Melt Temperature	428 to 536 °F	220 to 280 °C

Extrusion Notes

Fabrication Conditions For Cast Film Extrusion:

- Chill Roll Temperature: 20 to 40°C.
- Melt Temperature: 220 to 280°C.
- Recommended Gauge Range: 10 to 35 µm.

