

DOWLEX™ 2006G

Polyethylene Resin

Overview

Dowlex™ 2006G Polyethylene Resin is an ethylene 1-octene copolymer, suitable for cast film applications and also perfectly designed to give excellent filler acceptance and low torque during compounding.

Dowlex™ 2006G offers superior stiffness and excellent temperature resistance making it the perfect partner for down gauging. Films produced using Dowlex™ 2006G offer low shrinkage which is ideal when registered printing is used.

Main Characteristics:

- Optimum extruder output and process ability, pure or in blends
- Superior stiffness and temperature resistance

Complies with:

- Europe 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	0.961 g/cm ³	0.961 g/cm ³	ASTM D792
Base Density ¹	0.963 g/cm ³	0.963 g/cm ³	Dow Method
Melt Index (190°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	0.79 mil	20 µm	
Tensile Strength			ASTM D882
MD : Break, 0.79 mil (20 µm)	5510 psi	38.0 MPa	
TD : Break, 0.79 mil (20 µm)	2760 psi	19.0 MPa	
MD : 0.79 mil (20 µm) ²	3050 psi	21.0 MPa	
TD : 0.79 mil (20 µm) ²	2180 psi	15.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 0.79 mil (20 µm)	700 %	700 %	
TD : Break, 0.79 mil (20 µm)	15 %	15 %	
Elmendorf Tear Strength			ASTM D1922
MD : 0.79 mil (20 µm)	29 g	29 g	
TD : 0.79 mil (20 µm)	390 g	390 g	

Extrusion Notes

Cast film extrusion conditions:

- Melt Temperature: 220°C
- Die gap: 0.7 mm
- Film thickness: 20 microns

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 @ 5% Elongation

