



DOWLEX™ 6000G Polyethylene Resin

Overview

DOWLEX® 6000G Polyethylene Resin is an ethylene, 1-octene copolymer, suitable for high performance blown film applications, alone or in blends with LDPE. It offers superior seal performance at high extrusion output rates and an excellent balance of optical and mechanical properties.

Main Characteristics:

- Optimum extruder output and stability, pure or in blends.
- Combination of sealability with optical and mechanical properties

Applications:

- Industrial & Consumer films.
- Stretch Hood films.
- Stretch Cling films

Complies with:

- Europe Commission Regulation (EU) No 10/2011EU
- U.S. FDA FCN 424

Consult the regulations for complete details

Additive

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.916 g/cm ³	0.916 g/cm ³	ASTM D792
Base Density ¹	0.916 g/cm ³	0.916 g/cm ³	Dow Method
Melt Index (190°C/2.16 kg)	0.70 g/10 min	0.70 g/10 min	ISO 1133
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2.0 mil	50 µm	
Tensile Modulus			ISO 527-3
2% Secant, MD	14500 psi	100 MPa	
2% Secant, TD	15500 psi	107 MPa	
Tensile Stress			ISO 527-3
MD : Yield, 2.0 mil (50 µm)	783 psi	5.40 MPa	
TD : Yield, 2.0 mil (50 µm)	1040 psi	7.20 MPa	
MD : Break, 2.0 mil (50 µm)	5320 psi	36.7 MPa	
TD : Break, 2.0 mil (50 µm)	5450 psi	37.6 MPa	
Tensile Elongation			ISO 527-3
MD : Break, 2.0 mil (50 µm)	570 %	570 %	
TD : Break, 2.0 mil (50 µm)	640 %	640 %	
Dart Drop Impact (2.0 mil (50 µm))	980 g	980 g	ISO 7765-1/A
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (50 µm)	860 g	860 g	
TD : 2.0 mil (50 µm)	1100 g	1100 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature ²	205 °F	96.0 °C	ASTM D1525
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 1.97 mil (50.0 µm))	66	66	ASTM D2457
Clarity (1.97 mil (50.0 µm))	99.0	99.0	ASTM D1746
Haze (1.97 mil (50.0 µm))	8.5 %	8.5 %	ISO 14782



Extrusion Notes

Fabrication Conditions for Blown Film Resin:

- Melt Temperature: 190 to 240°C
- Blow-Up Ratio: 1.5 to 3.1
- Recommended Gauge Range: 10 to 150 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 Compression moulded samples

