



ELITE™ 5960G1

Enhanced Polyethylene Resin

Overview

Main Characteristics:

- HDPE with excellent moisture barrier, low dusting propensity
- Great processability; low back pressure and exceptional bubble stability

Complies with:

- U.S. FDA 21 CFR 177.1520 (c) 2.2
- EU, No 10/2011

Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.962 g/cm ³	0.962 g/cm ³	ASTM D792
Base Density ¹	0.960 g/cm ³	0.960 g/cm ³	Dow Method
Melt Index (190°C/2.16 kg)	0.85 g/10 min	0.85 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2.0 mil	50 µm	
Secant Modulus			ASTM D882
2% Secant, MD	123000 psi	850 MPa	
2% Secant, TD	135000 psi	929 MPa	
Dart Drop Impact	130 g	130 g	ASTM D1709A
Elmendorf Tear Strength ²			ASTM D1922
MD	41 g	41 g	
TD	170 g	170 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	266 °F	130 °C	ASTM D1525
Melting Temperature (DSC)	273 °F	134 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°)	13	13	ASTM D2457
Haze	53 %	53 %	ASTM D1003

Extrusion Notes

Fabrication Conditions For Blown Film:

Screw Size: 3.5 in

Screw Type: DSB II

Die Gap: 70 mil (1.7 mm)

Melt Temperature: 425°F

Output: 12 lb/hr/in of die circumference

Die Diameter: 8 in.

Blow-Up Ratio: 2.5 to 1

Frost Line Height: 33 in.

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 Method B

