



# ELITE™ 5960G

## Enhanced Polyethylene Resin

### Overview

Main Characteristics:

- HDPE with excellent moisture barrier
- Processes with low back pressure and excellent bubble stability

Complies with:

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

Consult the regulations for complete details.

### Additive

- Antiblock: 3000 ppm
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.962 g/cm <sup>3</sup>	0.962 g/cm <sup>3</sup>	ASTM D792
Base Density <sup>1</sup>	0.960 g/cm <sup>3</sup>	0.960 g/cm <sup>3</sup>	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	1.0 mil	25 µm	
Film Puncture Energy	3.00 in·lb	0.339 J	
Film Puncture Force	3.00 lbf	13.3 N	
Film Puncture Resistance	17.0 ft·lb/in <sup>3</sup>	1.41 J/cm <sup>3</sup>	Dow Method
Film Toughness			ASTM D882
MD	1700 ft·lb/in <sup>3</sup>	141 J/cm <sup>3</sup>	
TD	1550 ft·lb/in <sup>3</sup>	128 J/cm <sup>3</sup>	
Secant Modulus			ASTM D882
1% Secant, MD	163000 psi	1120 MPa	
2% Secant, MD	127000 psi	876 MPa	
1% Secant, TD	193000 psi	1330 MPa	
2% Secant, TD	148000 psi	1020 MPa	
Tensile Strength			ASTM D882
MD : Yield	4100 psi	28.3 MPa	
TD : Yield	4400 psi	30.3 MPa	
MD : Break	5400 psi	37.2 MPa	
TD : Break	3500 psi	24.1 MPa	
Tensile Elongation			ASTM D882
MD : Break	500 %	500 %	
TD : Break	600 %	600 %	
Dart Drop Impact	40 g	40 g	ASTM D1709A
Elmendorf Tear Strength <sup>2</sup>			ASTM D1922
MD	13 g	13 g	
TD	400 g	400 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°)	14	14	ASTM D2457
Haze	42 %	42 %	ASTM D1003



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**Extrusion Notes**

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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.

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<sup>1</sup> 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/cm<sup>3</sup>. Base density is the estimated density of the polymer if it did not contain any antiblock.

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<sup>2</sup> Method B

