



## Technical Data Sheet

### ELITE™ 5960G1 Enhanced Polyethylene Resin

#### Main Characteristics

- 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

#### Sustainability Attribute:



Consult the regulations for complete details.

#### Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method <sup>2</sup>
Density	0.962	g/cm <sup>3</sup>	ASTM D792
Base Density <sup>3</sup>	0.960	g/cm <sup>3</sup>	Internal Method
Melt Index (190°C/2.16 kg)	0.85	g/10 min	ASTM D1238
<b>Films</b>			
Film Thickness - Tested	50	µm	
Secant Modulus			ASTM D882
2% Secant, MD	850	MPa	
2% Secant, TD	929	MPa	
Dart Drop Impact	130	g	ASTM D1709A
Elmendorf Tear Strength <sup>4</sup>			ASTM D1922
MD	41	g	
TD	170	g	
<b>Thermal</b>			
Vicat Softening Temperature	130	°C	ASTM D1525
Melting Temperature (DSC)	134	°C	Internal Method
<b>Optical</b>			
Gloss (45°)	13		ASTM D2457
Haze	53	%	ASTM D1003

1. Typical properties: these are not to be construed as specifications.
2. ASTM: American Society for Testing and Materials.
3. 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
4. Method B.



## Properties (Cont.)

Extrusion Notes	Nominal Value	Unit	Test Method
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.			

