

ELITE™ 5960G

Enhanced Polyethylene Resin

The Dow Chemical Company

Message:

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.

General Information			
Additive	Anti-caking agent (3000 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
	HPFB (Canada) No Objection		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.962	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.85	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Puncture Energy	0.339	J	
Film Puncture Force	13.3	N	
Film Puncture Resistance	1.41	J/cm ³	Internal method
Film strength			ASTM D882
MD	141	J/cm ³	ASTM D882
TD	128	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	1120	MPa	ASTM D882
2% secant, MD	876	MPa	ASTM D882
1% secant, TD	1330	MPa	ASTM D882
2% secant, TD	1020	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	28.3	MPa	ASTM D882
TD: Yield	30.3	MPa	ASTM D882
MD: Fracture	37.2	MPa	ASTM D882
TD: Fracture	24.1	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Fracture	500	%	ASTM D882
TD: Fracture	600	%	ASTM D882
Dart Drop Impact	40	g	ASTM D1709A
Elmendorf Tear Strength ¹			ASTM D1922
MD	13	g	ASTM D1922
TD	400	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	130	°C	ASTM D1525
Melting Temperature (DSC)	134	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	14		ASTM D2457
Haze	42	%	ASTM D1003
Extrusion instructions			
Fabrication Conditions For Blown Film:Screw Size: 3.5 inScrew Type: DSB IIDie Gap: 70 mil (1.7 mm)Melt Temperature: 425°FOutput: 12 lb/hr/in of die circumferenceDie Diameter: 8 in.Blow-Up Ratio: 2.5 to 1Frost Line Height: 33 in.			
NOTE			

1. Method B

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

