

ELITE™ 5538G

Enhanced Polyethylene Resin

Overview

- For high modulus blown film applications
- Various industrial and consumer specialty films
- Complies with:
 - U.S. FDA 21 CFR 177.1520 (c) 3.2a
 - EU, No 10/2011
 - Consult the regulations for complete details.

Additive

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.941 g/cm ³	0.941 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	1.3 g/10 min	1.3 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2.0 mil	51 µm	
Film Puncture Force (2.0 mil (51 µm))	10.3 lbf	46.0 N	Dow Method
Tensile Strength			ASTM D882
MD : Break, 2.0 mil (51 µm)	6380 psi	44.0 MPa	
TD : Break, 2.0 mil (51 µm)	5660 psi	39.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (51 µm)	1000 %	1000 %	
TD : Break, 2.0 mil (51 µm)	1100 %	1100 %	
Dart Drop Impact (2.0 mil (51 µm))	99 g	99 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (51 µm)	82 g	82 g	
TD : 2.0 mil (51 µm)	650 g	650 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature (DSC)	264 °F	129 °C	Dow Method
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	446 °F	230 °C	

Extrusion Notes

Fabrication Conditions For Blown Film:

- Screw Size: 60/70 mm; 30:1 L/D
- Screw Type: barrier screw
- Die Gap: 2.3 mm
- Melt Temperature: 230°C
- Output: 150 Kg/hr
- Die Diameter: 150 mm.
- Blow-Up Ratio: 2.5:1

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

