Technical Information

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/cm³	0.941	g/cm³	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	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.