



# ELITE™ 5408G

## Enhanced Polyethylene Resin

### Overview

ELITE™ 5408G Enhanced Polyethylene Resin is a copolymer produced via INSITE™ Technology from Dow. It offers a unique combination of low seal initiation, moderate stiffness, low blocking with stable COF for excellent performance and efficiency on automated packaging equipment.

- For food and specialty packaging films
- Superior impact resistance and tear properties

Complies with:

- U.S. FDA FCN 424
- EU, No 10/2011

Consult the regulations for complete details.

### Additive

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.918 g/cm <sup>3</sup>	0.918 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	1.0 g/10 min	1.0 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	15.0 in·lb	1.69 J	Dow Method
Film Puncture Force	8.00 lbf	35.6 N	Dow Method
Film Puncture Resistance	110 ft·lb/in <sup>3</sup>	9.10 J/cm <sup>3</sup>	Dow Method
Film Toughness			ASTM D882
MD	850 ft·lb/in <sup>3</sup>	70.3 J/cm <sup>3</sup>	
TD	800 ft·lb/in <sup>3</sup>	66.2 J/cm <sup>3</sup>	
Secant Modulus			ASTM D882
1% Secant, MD	26000 psi	179 MPa	
2% Secant, MD	23000 psi	159 MPa	
1% Secant, TD	29000 psi	200 MPa	
2% Secant, TD	24000 psi	165 MPa	
Tensile Strength			ASTM D882
MD : Yield	1700 psi	11.7 MPa	
TD : Yield	1600 psi	11.0 MPa	
MD : Break	4900 psi	33.8 MPa	
TD : Break	4000 psi	27.6 MPa	
Tensile Elongation			ASTM D882
MD : Break	400 %	400 %	
TD : Break	450 %	450 %	
Dart Drop Impact	450 g	450 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	250 g	250 g	
TD	550 g	550 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	212 °F	100 °C	ASTM D1525
Melting Temperature (DSC)	253 °F	123 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°)	33	33	ASTM D2457
Haze	22.0 %	22.0 %	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 (1.8 mm)
- Melt Temperature: 410°F
- Output: 12 lb/hr/in. of die circumference
- Die Diameter: 8 in.
- Blow-Up Ratio: 2.5:1
- Screw Speed: 40 rpm
- Frost Line Height: 47 in.

## Notes

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

