



# ELITE™ 5815

## Enhanced Polyethylene Resin

- Overview**
- Monolayer and coextrusion coating for packaging applications
  - Coextruded with PRIMACOR™ copolymers as a cost effective foil or PET sealant

When used unmodified for food contact applications, this resin will comply with the Federal Food, Drug, and Cosmetic Act as a food contact substance as a result of a premarket food contact notification (FCN) with an effective date of October 7, 2004 under FCN 424. This notification allows for use of this product as articles or components of articles used in contact with all food types under Conditions of Use A through H, as described in U.S. FDA Table 2 of 21 CFR § 176.170(c). The composition of this product complies with the requirements for use in contact with food of the EU-Directive 2002/72/EC. Contact a Dow Sales Office to obtain a detailed food contact compliance letter for this product.

ELITE™ 5815 is produced via INSITE™ Technology from Dow. It is an ethylene alpha-olefin resin for monolayer and coextrusion coating that offers excellent low temperature seal initiation, ultimate seal strength, hot tack strength, and good taste and odor performance.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.910 g/cm <sup>3</sup>	0.910 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	15 g/10 min	15 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Seal Initiation Temperature 1.00 mil (25.4 µm)	195 °F	90.6 °C	Dow Method <sup>1</sup>
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature (DSC)	255 °F	124 °C	Dow Method
Extrusion	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Temperature	550 to 600 °F	288 to 316 °C	
Minimum Coating Thickness	< 0.300 mil	< 0.300 mil	Dow Method
Minimum Coating Weight	< 4.5 lb/ream	< 7.3 g/m <sup>2</sup>	Dow Method
Neck-in 600°F (316°C), 0.00100 in (0.0254 mm)	9.3 in	235.0 mm	Dow Method

### Extrusion Notes

- Fabrication Conditions For Blown Film:
- Extruder : Black Clawson
  - Screw Size: 3.5 in. (90 mm); 30:1 L/D
  - Die Gap: 20 mil (0.508 mm)
  - Chill Roll Temperature: 57°F (14°C)
  - Melt Temperature: 600°F (315°C)
  - Output: 250 lb/hr
  - Air Gap: 6 in. (150 mm)

### Notes

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

- <sup>1</sup> - Coating onto PET/poly/foil/0.5 mil PRIMACOR\*.  
 - Temperature at which 1 lb/in (4.4 FN/25.4 mm) heat seal strength is achieved.  
 - Heat Seal Strengths, Topware HT Tester, 0.5 S dwell, 40 psi bar pressure, 10 in./min. pull speed.

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- use as a critical component in medical devices that support or sustain human life; or
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Published: 2007-09-25

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