

ELITE[™] 5815 Enhanced Polyethylene Resin

Overview

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.

- · Monolayer and coextrusion coating for packaging applications
- · Coextruded with acid copolymers as a cost effective foil or PET sealant

Complies with:

- U.S. FDA-DMF
- EU, No 10/2011
- U.S. FDA FCN 424
- Canadian HPFB No Objection

Consult the regulations for complete details.

 Slip: No 		Processing Aid: No		
Nominal Value	(English)	Nominal Value	(SI)	Test Method
0.910	g/cm³	0.910	g/cm³	ASTM D792
0.910	g/cm³	0.910	g/cm³	Dow Method
15	g/10 min	15	g/10 min	ASTM D1238
Nominal Value	(English)	Nominal Value	(SI)	Test Method
				Dow Method
195	°F	90.6	°C	
Nominal Value	(English)	Nominal Value	(SI)	Test Method
255	°F	124	°C	Dow Method
Nominal Value	(English)	Nominal Value	(SI)	Test Method
550 to 600	°F	288 to 316	°C	
< 0.30	mil	< 7.6	μm	Dow Method
< 4.5	lb/ream	< 7.3	g/m²	Dow Method
9.3	in	235.0	mm	Dow Method
	 Slip: N Nominal Value 0.910 0.910 15 Nominal Value 195 Nominal Value 255 Nominal Value 550 to 600 < 0.30 < 4.5 9.3 	 Slip: No Nominal Value (English) 0.910 g/cm³ 0.910 g/cm³ 15 g/10 min Nominal Value (English) 195 °F Nominal Value (English) 255 °F Nominal Value (English) 550 to 600 °F < 0.30 mil < 4.5 lb/ream 3 in 	Nominal Value (English) Nominal Value 0.910 g/cm³ 0.910 0.910 g/cm³ 0.910 0.910 g/cm³ 0.910 15 g/10 min 15 Nominal Value (English) Nominal Value 195 °F 90.6 Nominal Value (English) Nominal Value 255 °F 124 Nominal Value (English) Nominal Value 550 to 600 °F 288 to 316 < 0.30	• Slip: No • Processing Aid Nominal Value (English) Nominal Value (SI) 0.910 g/cm³ 0.910 g/cm³ 0.910 g/cm³ 0.910 g/cm³ 0.910 g/cm³ 0.910 g/cm³ 15 g/10 min 15 g/10 min Nominal Value (English) Nominal Value (SI) 195 °F 90.6 °C Nominal Value (English) Nominal Value (SI) 255 °F 124 °C Nominal Value (English) Nominal Value (SI) 550 to 600 °F 288 to 316 °C < 0.30

Extrusion Notes

Fabrication Conditions For Cast 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.

¹ Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

² - Coating onto PET/poly/foil/0.5 mil acid copolymer.

⁻ 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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