



ELITE™ 5815

The Dow Chemical Company - Enhanced Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

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.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• DMF Unspecified Rating • EU No 10/2011	• FDA FCN 424 • HPFB (Canada) No Objection	
Forms	• Pellets		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.912		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	15	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Seal Initiation Temperature ² (1.0 mil)	195	°F	Internal Method
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	255	°F	Internal Method

Processing Information

Extrusion	Nominal Value	Unit	Test Method
Melt Temperature	550 to 600	°F	
Minimum Coating Thickness	< 0.30	mil	Internal Method
Minimum Coating Weight	< 4.5	lb/ream	Internal Method
Neck-in (600°F, 1.0 mil)	9.3	in	Internal Method

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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

¹ Typical properties: these are not to be construed as specifications.

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.