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.

Additive

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

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.910	g/cm³	0.910	g/cm³	ASTM D792
Base Density [1]	0.910	g/cm³	0.910	g/cm³	Dow Method
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 [2]					Dow Method
1.0 mil (25 µm)	195	°F	90.6	°C	
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	< 0.30	mil	< 7.6	µm	Dow Method
Minimum Coating Weight	< 4.5	lb/ream	< 7.3	g/m²	Dow Method
Neck-in (600°F (316°C), 1.0 mil (25.4 µm))	9.3	in	235.0	mm	Dow Method

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.

Form No. 400-00112729en
Rev: 2017-08-31

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Additional Information

North America		**Europe/Middle East**	+800-3694-6367
U.S. & Canada:	1-800-441-4369		+31-11567-2626
	1-989-832-1426	Italy:	+800-783-825
Mexico:	+1-800-441-4369		
Latin America		**South Africa**	+800-99-5078
Argentina:	+54-11-4319-0100		
Brazil:	+55-11-5188-9000		
Colombia:	+57-1-219-6000	**Asia Pacific**	+800-7776-7776
Mexico:	+52-55-5201-4700		+603-7965-5392

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Published: 2008-03-11

Form No. 400-00112729en
Rev: 2017-08-31