

AFFINITY™ PT 1450G1 **Polyolefin Plastomer**

Overview

- · Monolayer and coextrusion coating for packaging applications
- · Recommended for use with Oriented Polypropylene (OPP as a tie layer or sealant)
- Coextruded with PRIMACOR* polymer as a cost effective foil or PET sealant
- · Complies with U.S. FDA
- · Consult the regulations for complete details. (See NOTES)

AFFINITY™ PT 1450G1 Polyolefin Plastomer is produced via INSITE™ Technology. It is an ethylene alpha-olefin resin for monolayer and coextrusion coating that offers excellent low temperature seal initiation, ultimate seal strength, adhesion to (OPP) and good taste and odor performance.

Note: It is the responsibility of the manufacturer of the food contact article to ensure the article is suitable for its intended use. Manufacturers should be aware that foods with a high oil content may compromise the integrity of the packaging.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method	
Density	0.902 g/cm ³	0.902 g/cm ³	ASTM D792	
Melt Index (190°C/2.16 kg)	7.5 g/10 min 7.5 g/10 min		ASTM D1238	
Films	Nominal Value (English) Nominal Value (SI)		Test Method	
Seal Initiation Temperature			Dow Method ¹	
1.00 mil (25.4 μm)	181 °F	82.8 °C		
Adhesion to OPP			Dow Method ²	
600°F (316°C)	0.73 pli	0.13 kN/m		
550°F (288°C)	1.0 pli	0.18 kN/m		
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method	
Vicat Softening Temperature	171 °F	77.2 °C	ASTM D1525	
Melting Temperature (DSC)	208 °F	97.8 °C	Dow Method	

Nominal Value (English)	Nominal Value (SI)	Test Method	
550 to 600 °F	288 to 316 °C		
< 0.300 mil	< 0.300 mil	Dow Method	
< 4.5 lb/ream	< 7.3 g/m²	Dow Method	
		Dow Method	
5.3 in	134.6 mm		
	550 to 600 °F < 0.300 mil < 4.5 lb/ream	550 to 600 °F 288 to 316 °C < 0.300 mil < 0.300 mil < 7.3 g/m²	

Extrusion Notes

Fabrication Conditions For Extrusion Coating 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)

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

Temperature at which 1 lb/in. (4.4 N/25.4 mm) heat seal strength is achieved.

Heat Seal Strengths, Topware HT Tester, 0.5 S dwell, 40 psi bar pressure, pull speed 150 mm/sec.

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¹ 1.0 mil (25µm) coating onto 50 lb Kraft paper.

² 1.0 mil (25µm) coating onto 50 lb Kraft paper.

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