



AFFINITY PT 1450G1

Polyolefin Plastomer

- 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. ⁽¹⁾

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.

Physical Properties	Test Method	Values ⁽²⁾ English (SI)
Resin Properties		
Melt Index, g/10 min	ASTM D 1238	7.5
Density, g/cc	ASTM D 792	0.9020
DSC Melting Point, °F (°C)	Dow Method	208 (98)
Vicat Softening Point, °F (°C)	ASTM D 1525	171 (77)
Extrusion Coating Performance⁽³⁾		
Seal Initiation Temperature ⁽⁴⁾⁽⁵⁾ , °F (°C)	Dow Method	181 (83)
Adhesion to OPP @ 550°F lb/in. @ 600°F lb/in.	Dow Method	1.04 0.73
Extrusion Coating Processability		
Recommended Melt Temperature, °F (°C)		550-600 (288-315)
Neck-in @ 600°F and @ 1.0 mil, inches (mm)	Dow Method	5.3 (135)
Minimum Coating Weight, lb/ream (g/m ²)	Dow Method	<4.5 (<7.5)
Minimum Coating Thickness, mil	Dow Method	<0.3

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)

- (1) 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.
- (2) Typical values, not to be construed as specifications. Users should confirm results by their own tests.
- (3) 1.0 mil (25µm) coating onto 50 lb Kraft paper.
- (4) Temperature at which 1 lb/in. (4.4 N/25.4 mm) heat seal strength is achieved.
- (5) Heat Seal Strengths, Topware HT Tester, 0.5 S dwell, 40 psi bar pressure, pull speed 150 mm/sec.

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