

Dow AFFINITY™ PT 1450G1 Ethylene alpha-olefin resin

Category : Polymer , Thermoplastic , Polyolefin

Material Notes:

AFFINITY™ PT 1450G1 Polyolefin Plastomer (POP) is produced via INSITE™ Technologies. The resin is for monolayer and co-extrusion coating that offers excellent low temperature seal initiation, ultimate seal strength, adhesion to Oriented Polypropylene (OPP) and good taste and odor performance. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-AFFINITY-PT-1450G1-Ethylene-alpha-olefin-resin.php

Physical Properties	Metric	English	Comments
Density	0.902 g/cc	0.0326 lb/in ³	ASTM D792
Thickness	>= 7.62 microns	>= 0.300 mil	Coating Thickness; Extrusion Coating Processability; Dow Method
Melt Index of Compound	7.5 g/10 min	7.5 g/10 min	ASTM D1238
Neck In	13.5 cm	5.31 in	610°F and 1.0 mil; Extrusion Coating Processability; Dow Method
Coating Weight	>= 7.20 g/m ²	>= 4.50 lb/ream	Extrusion Coating Processability; Dow Method

Mechanical Properties	Metric	English	Comments
Adhesive Bond Strength	5.03 MPa	730 psi	to Oriented Polypropylene (OPP) @ 600°F, 1.0 mil coating onto 50 lb Kraft paper; Dow Method
	7.17 MPa	1040 psi	to Oriented Polypropylene (OPP) @ 550°F, 1.0 mil coating onto 50 lb Kraft paper; Dow Method
Heat Seal Strength Initiation Temperature	83.0 °C	181 °F	1 lb/in heat seal strength; 1.0 mil coating onto 50 lb Kraft paper; Dow Method

Thermal Properties	Metric	English	Comments
Melting Point	98.0 °C	208 °F	Dow Method (DSC)
Vicat Softening Point	77.0 °C	171 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	288 - 315 °C	550 - 599 °F	Extrusion Coating Processability

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