

# AFFINITY™ PT 1450G1

Polyolefin Plastomer  
The Dow Chemical Company

Message:

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.

General Information			
Agency Ratings	FDA not rated		
Forms	Particle		
Processing Method	Film extrusion		
	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.902	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Seal Initiation Temperature <sup>1</sup> (25 µm)	82.8	°C	Internal method
Can be bonded to OPP <sup>2</sup>			Internal method
316°C	0.13	kN/m	Internal method
288°C	0.18	kN/m	Internal method
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	77.2	°C	ASTM D1525
Melting Temperature (DSC)	97.8	°C	Internal method
Extrusion	Nominal Value	Unit	Test Method
Melt Temperature	288 - 316	°C	
Neck-in (316°C, 25.4 µm)	134.6	mm	Internal method
Minimum coating thickness		µm	Internal method
Minimum coating weight		g/m <sup>2</sup>	Internal method
Extrusion instructions			

挤出涂层薄膜的制造条件:  
挤塑机:Black Clawson  
螺杆尺寸:3.5 英寸 (90 mm);30:1 L/D  
模具间隙:20 密尔 (0.508 mm)  
冷却辊温度:57°F (14°C)  
熔体温度:600°F (315°C)  
输出:250 磅/小时  
气隙:6 英寸 (150 mm)

NOTE	
1.	1.0 Mill (25 µm) coating applied to 50 pounds of kraft paper. Achieve a temperature of 1 psig (4.4 N/25.4mm) heat seal strength. Heat seal strength, Topwave HT tester, 0.5 S holding pressure, 40 psi pressure, pulling speed 150 mm/s.
2.	1.0 Mill (25 µm) coating applied to 50 pounds of kraft paper.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material


Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT