

AFFINITY™ PF 1162G

The Dow Chemical Company - Polyolefin Plastomer

Monday, November 4, 2019

General Information

Product Description

- For food packaging
- · Excellent seal flexibility and strength properties

Complies with:

• U.S. FDA FCN 424

Consult the regulations for complete details.

General				
Material Status	Commercial: Active			
Availability	Latin America	North America		
Additive	Antiblock: 5000 ppm	Processing Aid: No	• Slip: 2500 ppm	
Agency Ratings	• FDA FCN 424			
Forms	 Pellets 			
Processing Method	Blown Film			

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density / Specific Gravity	0.902		ASTM D792	
Melt Mass-Flow Rate (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238	
Films	Nominal Value	Unit	Test Method	
Film Thickness - Tested	2	mil		
Tensile Strength - MD (Yield, 2.0 mil)	861	psi	ASTM D882	
Tensile Strength - TD (Yield, 2.0 mil)	838	psi	ASTM D882	
Tensile Strength - MD (Break, 2.0 mil)	6410	psi	ASTM D882	
Tensile Strength - TD (Break, 2.0 mil)	6040	psi	ASTM D882	
Tensile Elongation - MD (Break, 2.0 mil)	610	%	ASTM D882	
Tensile Elongation - TD (Break, 2.0 mil)	650	%	ASTM D882	
Dart Drop Impact (2.0 mil)	> 850	g	ASTM D1709B	
Elmendorf Tear Strength - MD (2.0 mil)	400	g	ASTM D1922	
Elmendorf Tear Strength - TD (2.0 mil)	510	g	ASTM D1922	
Seal Initiation Temperature ² (2.0 mil)	176	°F	Internal Method	
Thermal	Nominal Value	Unit	Test Method	
Vicat Softening Temperature	169	°F	ASTM D1525	
Melting Temperature (DSC)	203	°F	Internal Method	
Optical	Nominal Value	Unit	Test Method	
Gloss (45°, 2.00 mil)	81		ASTM D2457	
Haze (2.00 mil)	5.00	%	ASTM D1003	

Processing Information		
Extrusion	Nominal Value Unit	
Melt Temperature	350 to 450 °F	



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Extrusion Notes

Fabrication Conditions For Blown Film:

- · Screw Type: Single Flight Double Mix
- Die Gap: 70 mil (1.8 mm)
- Melt Temperature: 350-450°F (177-232°C)
- Output: 6.5 lb/hr/in. of die circumference
- Die Diameter: 6 in.Blow-Up Ratio: 2.5:1

Notes

¹ Typical properties: these are not to be construed as specifications.

² Temperature at which 2 lb/in. (8.8 N/25.4 mm) heat seal strength is achieved. Heat Seal Strengths, Topwave HT Tester 0.5 S dwell, 40 psi bar pressure, pull speed (150 mm/sec).

