

AFFINITY™ PF 1162G Polyolefin Plastomer

Overview

· For food packaging

• Excellent seal flexibility and strength properties

Complies with:

• U.S. FDA FCN 424

Consult the regulations for complete details.

Additive

• Antiblock: 5000 ppm

• Slip: 2500 ppm

· Processing Aid: No

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.900	g/cm³	0.900	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	1.0	g/10 min	1.0	g/10 min	ASTM D1238
Films	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Film Thickness - Tested	2.0	mil	51	μm	
Tensile Strength					ASTM D882
MD: Yield, 2.0 mil (51 µm)	861	psi	5.94	MPa	
TD: Yield, 2.0 mil (51 µm)	838	psi	5.78	MPa	
MD: Break, 2.0 mil (51 μm)	6410	psi	44.2	MPa	
TD: Break, 2.0 mil (51 µm)	6040	psi	41.6	MPa	
Tensile Elongation					ASTM D882
MD: Break, 2.0 mil (51 μm)	610	%	610	%	
TD: Break, 2.0 mil (51 µm)	650	%	650	%	
Dart Drop Impact (2.0 mil (51 µm))	> 850	g	> 850	g	ASTM D1709B
Elmendorf Tear Strength					ASTM D1922
MD: 2.0 mil (51 µm)	400	g	400	g	
TD: 2.0 mil (51 µm)	510	g	510	g	
Seal Initiation Temperature					Dow Method ¹
2.0 mil (51 μm)	176	°F	80.0	°C	
Thermal	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Vicat Softening Temperature	169	°F	76.0	°C	ASTM D1525
Melting Temperature (DSC)	203	°F	95.0	°C	Dow Method
Optical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Gloss (45°, 2.00 mil (50.8 μm))	81		81		ASTM D2457
Haze (2.00 mil (50.8 μm))	5.0	%	5.0	%	ASTM D1003
Extrusion	Nominal Value	(English)	Nominal Value	(SI)	
Melt Temperature	350 to 450	°F	177 to 232	°C	
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

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

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

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¹ Temperature at which 2 lb/in. (8.8 N/25.4 mm) heat seal strength is achieved.

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