



Technical Data Sheet

AFFINITY™ PL 1281G1 Polyolefin Plastomer

Regional Product Availability

- Europe, Middle East, and Africa

Description

AFFINITY™ PL 1281G1 Polyolefin Plastomer is an ethylene alpha-olefin plastomer produced via INSITE™ technology, which is designed for use as a seal layer in a variety of demanding high-speed packaging applications, including food, consumer, and health and hygiene products. It can be processed in cast film extrusion and compounding, providing extremely low coefficient of friction, very low seal initiation temperature and abuse resistance.

Typical Applications

- Cast film extrusion

Additive

- Antiblock: No
- Slip: Yes
- Processing Aid: No

Properties¹

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method ²
Density	0.9000	g/cm ³	0.9000	g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	6.0	g/10min	6.0	g/10min	ISO 1133
Films					
Film Thickness - Tested	0.984	mil	25	µm	
Tensile Stress ³					ISO 527-2
MD: Yield	861	Psi	5.94	MPa	
TD: Yield	612	Psi	4.22	MPa	
MD Break	4662	Psi	32.14	MPa	
TD: Break	3722	Psi	25.66	MPa	
Tensile Elongation ³					ISO 527-2
MD: Break	444	%	444	%	
TD: Break	663	%	663	%	
Elmendorf Tear Strength ³					ASTM D1922
MD:	162	g	162	g	
TD:	354	g	354	g	

- Typical properties; these are not to be construed as specifications.
- ASTM: American Society for Testing and Materials
ISO: International Standardization Organization
- Notes: Single layer cast film (25 µm)



Properties (Cont.)

Films	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Seal Initiation Temperature ⁴	187	°F	86	°C	Internal Method
Thermal					
Vicat Softening Temperature	172	°F	78	°C	ASTM D1525
Melting Temperature (DSC)	208.4	°F	98	°C	Internal Method
Optical					
Gloss (45°)	88	%	88	%	ASTM D2457
Haze	0.6	%	0.6	%	ISO 14782

4. Notes: Multilayer cast film (50 µm)

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