



AFFINITY™ PL 1280G Polyolefin Plastomer

Overview

AFFINITY™ PL 1280G Polyolefin Plastomer is a Polyolefin Plastomer (POP) produced using INSITE™ Technology from Dow Plastics. It is specifically designed for use as a sealant layer in flexible structures for the packaging of meat and cheese, dry foods and consumer goods. Due to its excellent sealability at low temperatures, ultimate hot tack strength, optical properties and abuse resistance, it is particularly suitable for high speed form-fill-seal packaging machines.

Applications:

- Cast Film

Complies with:

- Canadian HPFP No Objection
- EU, No 10/2011
- U.S. FDA FCN 424

Consult the regulations for complete details.

Additive

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	6.0 g/10 min	6.0 g/10 min	ISO 1133
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1 mil	25 µm	
Tensile Stress ¹			ISO 527-3
MD : Yield, 0.98 mil (25 µm)	841 psi	5.80 MPa	
TD : Yield, 0.98 mil (25 µm)	769 psi	5.30 MPa	
MD : Break, 0.91 mil (23 µm)	6960 psi	48.0 MPa	
TD : Break, 0.91 mil (23 µm)	4350 psi	30.0 MPa	
Tensile Elongation ¹			ISO 527-3
MD : Break, 0.98 mil (25 µm)	470 %	470 %	
TD : Break, 0.98 mil (25 µm)	720 %	720 %	
Dart Drop Impact ¹ (0.98 mil (25 µm))	290 g	290 g	ISO 7765-1/B
Elmendorf Tear Strength ¹			ASTM D1922
MD : 0.98 mil (25 µm)	78 g	78 g	
TD : 0.98 mil (25 µm)	410 g	410 g	
Seal Initiation Temperature ²			Dow Method
0.98 mil (25 µm)	190 °F	88.0 °C	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	178 °F	81.0 °C	ASTM D1525
Melting Temperature (DSC)	205 °F	96.0 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss ¹ (20°, 0.984 mil (25.0 µm))	91	91	ASTM D2457
Haze ¹ (0.984 mil (25.0 µm))	4.00 %	4.00 %	ISO 14782

Additional Information

Highlight testing machine.

Notes

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

¹ Single layer cast film, extruded at 274°C, 0.5 mm die gap.

² Single layer cast film, extruded at 274°C, 0.5 mm die gap.
Temperature required to reach 5.25 N/15 mm heat-seal strength.

