



AFFINITY™ PL 1280G

The Dow Chemical Company - Polyolefin Plastomer

Monday, November 4, 2019

General Information

Product Description

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.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• EU No 10/2011	• FDA FCN 424	• HPFB (Canada) No Objection
Forms	• Pellets		
Processing Method	• Cast Film		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.902		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Tensile Stress ²			ISO 527-3
MD : Yield, 0.98 mil	841	psi	
TD : Yield, 0.98 mil	769	psi	
Tensile Stress ²			ISO 527-3
MD : Break, 0.91 mil	6960	psi	
TD : Break, 0.91 mil	4350	psi	
Tensile Elongation ²			ISO 527-3
MD : Break, 0.98 mil	470	%	
TD : Break, 0.98 mil	720	%	
Dart Drop Impact ² (0.98 mil)	290	g	ISO 7765-1/B
Elmendorf Tear Strength - MD ² (0.98 mil)	78	g	ASTM D1922
Elmendorf Tear Strength - TD ² (0.98 mil)	410	g	ASTM D1922
Seal Initiation Temperature ³ (0.98 mil)	190	°F	Internal Method
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	178	°F	ASTM D1525
Melting Temperature (DSC)	205	°F	Internal Method

AFFINITY™ PL 1280G

The Dow Chemical Company - Polyolefin Plastomer

Optical	Nominal Value	Unit	Test Method
Gloss ² (20°, 0.984 mil)	91		ASTM D2457
Haze ² (0.984 mil)	4.00	%	ISO 14782
Additional Information			
Highlight testing machine.			

Notes

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

² Single layer cast film, extruded at 274°C, 0.5 mm die gap.

³ 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.