

AFFINITY™ PL 1280G

Polyolefin Plastomer

The Dow Chemical Company

Message:

AFFINITY™ PL 1280G polyolefin plastomer is a polyolefin plastomer (POP), which is prepared by INSITE of Dow Plastics Division™ Technology, specially used as sealant layer in soft structures such as meat, cheese, dry goods and consumer goods packaging materials. Due to its excellent low-temperature heat-sealing performance, ultimate thermal adhesive strength, optical properties and strength, it is especially suitable for high-speed molding-filling-heat-sealing packaging production lines.

remarks: when the resin is applied to the food contact field without modification, the resin meets the regulatory requirements for contact food substances (FCN) under the federal food, drug and cosmetic act of the United States, and its market access notice has been effective from October 7, 2004 in accordance with the FCN 424. The food contact certification notice allows the product to be used as an article or component in the production of articles in contact with food. These food types are described in the U.S. Food and Drug Administration Regulation 21 CFR § 176.170(c) Table -2 of the use conditions A to H. The composition of this product complies with EU directives

EU, No 10/2011

manufacturers should be aware that foods with high oil content may reduce the integrity of packaging. Please contact your nearest Dow representative for proof of compliance with the Food Contact Act. The purchaser remains responsible for determining whether the use of its products complies with all relevant regulations.

Application field:

cast film

General Information			
Agency Ratings	FDA FCN 424		
	HPFB (Canada) No Objection		
	Europe No 10/2011		
Forms	Particle		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	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	25	µm	
Tensile Stress ¹			ISO 527-3
MD: Yield, 25 µm	5.80	MPa	ISO 527-3
TD: Yield, 25 µm	5.30	MPa	ISO 527-3
MD: Break, 23 µm	48.0	MPa	ISO 527-3
TD: Break, 23 µm	30.0	MPa	ISO 527-3
Tensile Elongation ²			ISO 527-3
MD: Break, 25 µm	470	%	ISO 527-3
TD: Break, 25 µm	720	%	ISO 527-3
Dart Drop Impact ³ (25 µm)	290	g	ISO 7765-1/B
Elmendorf Tear Strength ⁴			ASTM D1922
MD : 25 µm	78	g	ASTM D1922
TD : 25 µm	410	g	ASTM D1922

Seal Initiation Temperature ⁵ (25 μm)	88.0	°C	Internal method
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	81.0	°C	ASTM D1525
Melting Temperature (DSC)	96.0	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss ⁶ (20°, 25.0 μm)	91		ASTM D2457
Haze ⁷ (25.0 μm)	4.0	%	ISO 14782
Additional Information			

突出显示测试机器.

NOTE

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| 1. | Single-layer cast film, extruded at 274°C, 0.5mm die gap. |
| 2. | Single-layer cast film, extruded at 274°C, 0.5mm die gap. |
| 3. | Single-layer cast film, extruded at 274°C, 0.5mm die gap. |
| 4. | Single-layer cast film, extruded at 274°C, 0.5mm die gap. |
| 5. | Single-layer cast film, extruded at 274°C, 0.5mm die gap. The temperature required to reach 5.25 N/15mm heat seal strength. |
| 6. | Single-layer cast film, extruded at 274°C, 0.5mm die gap. |
| 7. | Single-layer cast film, extruded at 274°C, 0.5mm die gap. |

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