AFFINITY™ PF 1140G

Polyolefin Plastomer

AFFINITY™ PF 1140G Polyolefin Plastomer is a Polyolefin Plastomer (POP) produced using INSITE™ Technology from Dow Plastics†. It is specifically designed for use into demanding applications such as skin packaging, display films and sealant layers in flexible packaging structures.

AFFINITY PF 1140G Polyolefin Plastomer offers outstanding optics, excellent low temperature seal initiation, ultimate hot-tack strength, and abuse resistance.

Note: When used unmodified for food contact applications, this resin will comply with the Federal Food, Drug, and Cosmetic Act as a food contact substance (FCN) as a result of a premarket notification with an effective date of October 7, 2004 under FCN 424. This notification allows for use of this product as articles or components of articles used in contact with all food types under Conditions of Use A through H, as described in U.S. FDA Table 2 of 21 CFR § 176.170(c). The composition of this product complies with the requirements for use in contact with food of the EU-Directive 2002/72/EC. Please contact your nearest Dow office regarding food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

Physical Properties[1]	Unit		Test Method	Values
Melt Index, 190 °C/2.16 kg	g/10min		ISO 1133	1.6
Density	g/cm^3		ASTM D-792	0.896
Melting Point	°C		DSC	94
Vicat Softening Point	°C		ASTM D-1525	77
Film Properties, 50µ thickness[1,2]	**Unit**		**Test Method**	**Values**
Dart Impact, (Method B)	g		ISO 7765-1	>830
Puncture Resistance			ASTM D-5748	
Energy	J			2.1
Force	N			35
Elmendorf Tear	g	MD	ASTM D-1922	300
		CD		670
Tensile Yield	MPa	MD	ISO 527-3	5
		CD		4.9
Ultimate Tensile	MPa	MD	ISO 527-3	49
		CD		43
Ultimate Elongation	%	MD	ISO 527-3	600
		CD		710
Tensile Modulus, 2% Secant	MPa	MD	ISO 527-3	64
		CD		64
Optical Properties				
Gloss 20º	units		ASTM D-2457	134
Haze	%		ISO 14782	1.3
Seal Initiation Temperature[3]	°C		Dow Method	81

(1) Typical values, not to be construed as specifications limits.

(2) Blown film extruded at 209 °C, BUR 2.5:1, 1.8 mm die gap.

(3) Temperature required to reach 5.25 N/15 mm heat seal strength.

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b. use in cardiac prosthetic devices regardless of the length of time involved; (Cardiac prosthetic devices include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass assisted devices);
c. use as a critical component in medical devices that support or sustain human life; or
d. use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

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