

AFFINITY™ HT1285G

Polyolefin Plastomer
The Dow Chemical Company

Message:

AFFINITY* HT1285G Polyolefin Plastomer (POP) is specifically designed as a high performance sealant for demanding packaging applications. AFFINITY HT 1285G provides high packaging integrity through improved hot tack strength, enhanced caulkability, superior seal though contamination, and low temperature seal initiation. It helps enable hermetic packaging on today's high speed packaging lines or with demanding substrates, and supports reducing sealant failure and potential related food waste. AFFINITY HT 1285G has been developed for processing on Cast, Blown, and Extrusion Coating film production lines.

High integrity sealant layer in flexible packaging

Low seal initiation temperature

Excellent hot tack strength

Excellent taste and odor profile

Superior seal through contamination

Complies with:

U.S. FDA FCN 424

EU, No 10/2011

Consult the regulations for complete details.

General Information			
Agency Ratings	DMF not rated		
	FDA FCN 424		
	HPFB (Canada) No Objection		
	USP 23		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.898	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Tensile Strength			ASTM D882
MD: Yield, 25 µm	5.80	MPa	ASTM D882
TD: Yield, 25 µm	5.30	MPa	ASTM D882
MD: Break, 25 µm	48.0	MPa	ASTM D882
TD: Break, 25 µm	30.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	470	%	ASTM D882
TD: Break, 25 µm	720	%	ASTM D882
Dart Drop Impact (25 µm)	290	g	ASTM D1709A
Elmendorf Tear Strength ¹			ASTM D1922
MD : 25 µm	78	g	ASTM D1922
TD : 25 µm	410	g	ASTM D1922

Seal Initiation Temperature	88.0	°C	ASTM D1525
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 (45°, 25.0 µm, Cast Film)	91		ASTM D2457
Haze (25.0 µm, Cast Film)	4.0	%	ASTM D1003
NOTE			

1. Method B

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