



AFFINITY™ HT1285G

The Dow Chemical Company - Polyolefin Plastomer

Monday, November 4, 2019

General Information

Product Description

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 through 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

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• DMF Unspecified Rating • EU No 10/2011	• FDA FCN 424 • HPFB (Canada) No Objection	• USP 23
Forms	• Pellets		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.900		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Tensile Strength - MD (Yield, 0.98 mil)	841	psi	ASTM D882
Tensile Strength - TD (Yield, 0.98 mil)	769	psi	ASTM D882
Tensile Strength - MD (Break, 0.98 mil)	6960	psi	ASTM D882
Tensile Strength - TD (Break, 0.98 mil)	4350	psi	ASTM D882
Tensile Elongation - MD (Break, 0.98 mil)	470	%	ASTM D882
Tensile Elongation - TD (Break, 0.98 mil)	720	%	ASTM D882
Dart Drop Impact (0.98 mil)	290	g	ASTM D1709A
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	190	°F	ASTM D1525
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	178	°F	ASTM D1525
Melting Temperature (DSC)	205	°F	Internal Method

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Optical	Nominal Value	Unit	Test Method
Gloss (45°, 0.984 mil, Cast Film)	91		ASTM D2457
Haze (0.984 mil, Cast Film)	4.00	%	ASTM D1003

Notes

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

² Method B