



AFFINITY™ HT1285G Polyolefin Plastomer

Overview

AFFINITY™ HT1285G Polyolefin Plastomer (POP) is specifically designed as a high performance sealant for demanding packaging applications. AFFINITY™ HT 1285G Polyolefin Plastomer 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 Polyolefin Plastomer 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.

Additive

- Antiblock: No
- Slip: No
- Processing aid: No

Properties

Physical	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method ¹
Density	0.900	g/cm ³	0.900	g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	6.0	g/10 min	6.0	g/10 min	ASTM D1238
Films					
Film Thickness — Tested	1	mil	25	µm	
Tensile Strength					ASTM D882
MD: Yield, 0.98 mil (25 µm)	841	psi	5.80	MPa	
TD: Yield, 0.98 mil (25 µm)	769	psi	5.30	MPa	
MD: Break, 0.98 mil (25 µm)	6960	psi	48.0	MPa	
TD: Break, 0.98 mil (25 µm)	4350	psi	30.0	MPa	



Properties (Cont.)

Films	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method
Tensile Elongation					ASTM D882
MD: Break, 0.98 mil (25 µm)	470	%	470	%	
TD: Break, 0.98 mil (25 µm)	720	%	720	%	
Dart Drop Impact ² (0.98 mil (25 µm))	290	g	290	g	ASTM D1709A
Elmendorf Tear Strength					ASTM D1922
MD: 0.98 mil (25 µm)	78	g	78	g	
TD: 0.98 mil (25 µm)	410	g	410	g	
Seal Initiation Temperature	190	°F	88.0	°C	Dow Method
Thermal					
Vicat Softening Temperature	178	°F	81.0	°C	ASTM D1525
Melting Temperature (DSC)	205	°F	96.0	°C	Dow Method
Optical					
Gloss (45°, 0.984 mil (25.0 µm), Cast Film)	91		91		ASTM D2457
Haze (0.984 mil (25.0 µm), Cast Film)	4.00	%	4.00	%	ASTM D1003

