

### **Technical Information**

# AFFINITY™ GA 1900 Polyolefin Plastomer

### Overview

- · Ultra high clarity, low density, low viscosity polyolefin
- · Excellent thermal stability
- Low Tg (Excellent low temperature properties)
- · Excellent flexibility
- · Non corrosive
- · Excellent color and odor
- · Excellent compatibility with a wide range of polymers
- · Low crystallinity (can be heavily filled)
- · Low density (better mileage)
- · Excellent adhesion to diverse substrates when formulated

#### Complies with:

U.S. FDA FCN 424

Consult the regulations for complete details.

AFFINITY\* GA 1900 Polyolefin Plastomer (POP) is produced via INSITE\* Technology from Dow Plastics. This product can be used in applications such as polymer modification (i.e. flow enhancement and property enhancement), masterbatch/additive carrier, and hot melt adhesives.

#### **Additive**

· Antiblock: No

Slip: No

· Processing Aid: No

Physical		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density		0.870	g/cm³	0.870	g/cm³	ASTM D792
Gardner Color		< 2.00		< 2.00		ASTM D6290
Volatile Matter 1		< 0.15	%	< 0.15	%	ASTM D3030
Mechanical		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Strength		225	psi	1.55	MPa	ASTM D638
Tensile Elongation (Break)		110	%	110	%	ASTM D638
Thermal		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Glass Transition Temperature		-72.0	°F	-57.8	°C	Dow Method
Melting Temperature (DSC)		154	°F	67.8	°C	Dow Method
Fill Analysis		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Brookfield Viscosity (350°F (177°C))		8.20	Pa⋅s	8.20	Pa⋅s	ASTM D1084

### Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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<sup>&</sup>lt;sup>1</sup> Modified for polyolefins. Change the temperature used to 100°C +/-3 and the amount of sample to 20 grams.



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