

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.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.870 g/cm³	0.870 g/cm ³	ASTM D792
Volatile Matter	< 0.15 %	< 0.15 %	ASTM D3030 ¹
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 (DSC)	-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))	8200 mPa·s	8200 mPa·s	ASTM D1084
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Gardner Color	< 1.00	< 1.00	ASTM D3417

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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¹ Modified for polyolefins. Change the temperature used to 100°C +/-3 and the amount of sample to 20 grams.

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