AFFINITY™ GA 1900K

The Dow Chemical Company - Polyolefin Plastomer

Monday, November 4, 2019

General Information

Product Description

- 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

AFFINITY™ GA 1900K 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), and masterbatch/additive carrier

General	
Material Status	• Commercial: Active
Availability	• North America
Forms	• Pellets

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.872		ASTM D792
Gardner Color	< 2.00		ASTM D6290
Volatile Matter [2]	< 0.15	%	ASTM D3030
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	225	psi	ASTM D638
Tensile Elongation (Break)	110	%	ASTM D638
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-72.0	°F	Internal Method
Melting Temperature (DSC)	154	°F	Internal Method
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Brookfield Viscosity (350°F)	8.20	Pa·s	ASTM D1084

Notes

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

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