



Technical Data Sheet

AFFINITY™ GA 1900 Polyolefin Plastomer

Description

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.

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 424

Consult the regulations for complete details.

Additive

- Antiblock: No
- Processing Aid: No
- Slip: No

Properties¹

| Physical | Nominal Value | Unit | Test Method |
|--------------------------------------|---------------|-------------------|-----------------|
| Density | 0.870 | g/cm ³ | ASTM D792 |
| Gardner Color | < 2.00 | | ASTM D6290 |
| Volatile Matter ³ | < 0.15 | % | ASTM D3030 |
| Mechanical | | | |
| Tensile Strength | 1.55 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 110 | % | ASTM D638 |
| Thermal | | | |
| Glass Transition Temperature | -57.8 | °C | Internal Method |
| Melting Temperature (DSC) | 67.8 | °C | Internal Method |
| Fill Analysis | | | |
| Brookfield Viscosity (350°F (177°C)) | 8.20 | Pa·s | ASTM D1084 |

