



Technical Data Sheet

AFFINITY™ RE 1900 REN 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 compatibility with a wide range of polymers
- Low crystallinity (can be heavily filled)
- Low density (better mileage)
- Excellent adhesion to diverse substrates when formulated

Sustainability Attribute:



Complies with:

- EU, No 10/2011
- U.S. FDA 21 CFR 175.105(c)(5)
- ISCC PLUS certification for bio-circular-based plastics

Consult the regulations for complete details.

AFFINITY™ RE 1900 REN 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

- Processing aid: No

Physical Properties

Physical	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method ¹
Density	0.870	g/cm ³	0.870	g/cm ³	ASTM D792
Gardner Color	< 2.00		< 2.00		ASTM D6290
Volatile Matter ²	< 0.15	%	< 0.15	%	ASTM D3030

1. ASTM: American Society for Testing and Materials
2. Modified for polyolefins. Change the temperature used to 100°C ±3 and the amount of sample to 20 grams.

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



Physical Properties (Cont.)

Mechanical	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method
Tensile Strength	225	psi	1.55	MPa	ASTM D638
Tensile Elongation (Break)	110	%	110	%	ASTM D638
Thermal					
Glass Transition Temperature	-72.0	°F	-57.8	°C	Dow Method
Melting Temperature (DSC)	154	°F	67.8	°C	Dow Method
Fill Analysis					
Brookfield Viscosity (350°F / 177°C)	8.20	Pa·s	8.20	Pa·s	ASTM D1084

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