



Technical Data Sheet

AFFINITY™ RE 1950 REN Polyolefin Plastomer

Overview

AFFINITY™ RE 1950 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.

Sustainability Attribute:



Main Characteristics:

- 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:

- 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.

Additive

Antiblock: No

Slip: No

Processing aid: No



Physical Properties

Physical	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method ¹
Density	0.874	g/cm ³	0.874 0.874	g/cm ³	ASTM D792
Gardner Color	2.00		2.00		ASTM D6290
Volatile Matter ²	< 0.15	%	< 0.15	%	ASTM D3030
Mechanical					
Tensile Strength	255	psi	1.76	MPa	ASTM D638
Tensile Elongation (Break)	190	%	190	%	ASTM D638
Thermal					
Glass Transition Temperature	-69.0	°F	-56.1	°C	Dow Method
Melting Temperature (DSC)	158	°F	70.0	°C	Dow Method
Fill Analysis					
Brookfield Viscosity (350°F / 177°C)	17.0	Pa-s	17.0	Pa-s	ASTM D1084

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.

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Medical Applications Policy (Cont.)

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