DOW

Technical Data Sheet

AGILITY™ EC 7000 REN Performance LDPE

Low Density Polyethylene Resin

Overview

AGILITY™ EC 7000 REN Performance LDPE is a next generation low density polyethylene resin for high speed extrusion coating.

Main Characteristics:

- Recommended for extrusion at high and low temperatures
- Robustness in melt drawing
- Performance as sealant polymer

Complies with:

- Europe Commission Regulation (EU) No 10/2011
- U.S. FDA 21 CFR 177.1520 (c)2.1
- U.S. DFA-DMF
- ISCC PLUS certification for bio-circular plastics

Consult the regulations for complete details.

Sustainability Attribute:

Ecolibrium™ Bio-based materials by DOW

Additive

- Antiblock: No
- Slip: No
- Processing aid: No

Physical Properties

Physical	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method[1]
Density	0.919	g/cm³	0.919	g/cm³	ASTM D1505
Base Density[2]	0.919	g/cm³	0.919	g/cm³	Dow Method
Melt Index (190°C/2.16 kg)	3.9	g/10 min	3.9	g/10 min	ASTM D1238
Mechanical					
Tensile Stress (Break)	1450	psi	10.0	MPa	ISO 527-2
Tensile Strain (Break)	540	%	540	%	ISO 527-2

1. ASTM: American Society for Testing and Materials
   ISO: International Standardization Organization
2. Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

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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Physical Properties (Cont.)

Thermal	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method[1]
Melting Temperature (DSC)	230	°F	110	°C	Dow Method
Extrusion					
Draw Down from 15 g/m² @ 100 m/min² at (608°F / (320°C))	1600	ft/min	500	m/min	Dow Method
Neck-in 25 g/m² @ 100 mpm² at (608°F / (320°C))	5.8	in	148.0	mm	Dow Method

3. Coating onto paper substrate and/or coating web at 250 mm air gap and -15 mm nip offset.

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