

# AGILITY™ EC 7000 Performance LDPE Low Density Polyethylene Resin

## Overview

AGILITY EC 7000 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

Consult the regulations for complete details.

## **Additive**

· Antiblock: No

· Slip: No

· Processing Aid: No

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.919	g/cm³	0.919	g/cm³	ASTM D1505
Base Density <sup>1</sup>	0.919	g/cm³	0.919	g/cm³	Dow Method
Melt Mass-Flow Rate (190°C/2.16 kg)	3.9	g/10 min	3.9	g/10 min	ASTM D1238
Mechanical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Stress (Break)	1450	psi	10.0	MPa	ISO 527-2
Tensile Strain (Break)	540	%	540	%	ISO 527-2
Thermal	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Melting Temperature	230	°F	110	°C	Dow Method
Extrucion	Naminal Value	(English)	Nominal Value	(CI)	Toot Mothod

Extrusion	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Draw Down - from 15 g/m² @ 100 m/min ² (608°F (320°C))	1600	ft/min	500	m/min	Dow Method
Neck-in - 25 g/m² @ 100 mpm ² (608°F (320°C))	5.8	in	148.0	mm	Dow Method

#### **Notes**

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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<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> Coating onto paper substrate and/or coating web at 250 mm air gap and -15mm nip off-set.

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