



AGILITY™ EC 7100 Performance LDPE

Low Density Polyethylene Resin

Overview

AGILITY EC 7100 Performance LDPE is an extrusion coating resin designed for thin high speed coatings. This resin can be readily processed using conventional LDPE extrusion coating hardware. For best sensory performance melt temperatures of preferably less than 290°C are chosen.

Applications:

- Paper, board and foil coating for food and specialty packaging

Complies with:

- EU, No 10/2011
- U.S. FDA 21 CFR 177.1520(c)2.2

Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.928 g/cm ³	0.928 g/cm ³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	4.5 g/10 min	4.5 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹			ISO 527-3
MD	1540 psi	10.6 MPa	
TD	1510 psi	10.4 MPa	
Tensile Elongation ¹			ISO 527-3
MD : Break	360 %	360 %	
TD : Break	400 %	400 %	
Seal Initiation Temperature ²	207 °F	97.0 °C	Dow Method
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	219 °F	104 °C	ASTM D1525
Melting Temperature	239 °F	115 °C	Dow Method
Extrusion	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Temperature	500 to 635 °F	260 to 335 °C	
Draw Down ³ (608°F (320°C))	2300 ft/min	700 m/min	Dow Method
Neck-in ⁴ (608°F (320°C))	6.9 in	176.0 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.

¹ 25g/m² coating onto Kraft paper substrate or coating web at 250 mm air gap and -15 mm nip off-set. Coatings applied on matte chill roll, surface RT 12 micron.

² Temperatures at which 3 N/15mm heat seal strength is achieved. 25g/m² coating onto Kraft paper substrate or coating web at 250 mm air gap and -15 mm nip off-set. Heat Seal Strength measured at 0.5 sec sealing time, 0.5 N/mm² pressure, 5 mm seal bar. Coatings applied on matte chill roll, surface RT 12 micron.

³ Acceleration from 15g/m² at 100 m/min

⁴ 25 g/m² at 100 m/min

