



AGILITY™ EC 7080 Performance LDPE

Low Density Polyethylene Resin

Overview

AGILITY™ EC 7080 Performance LDPE is a next generation Low Density Polyethylene Resin designed for the highest production line speeds for extrusion coating.

In the range of = 600 m/min, the web curtain stability of AGILITY™ EC 7080 Performance LDPE with an 8 MI will outperform traditional high speed extrusion coating resins within the MI range of 7 to 16 g/10min.

Main Characteristics:

- Recommended for very high speed and light weight for extrusion coating & lamination
- Robustness in melt drawing
- Performance as a 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	0.918 g/cm ³	0.918 g/cm ³	ASTM D1505
Base Density ¹	0.918 g/cm ³	0.918 g/cm ³	Dow Method
Melt Index (190°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature	225 °F	107 °C	Dow Method
Extrusion	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Temperature	518 to 635 °F	270 to 335 °C	
Minimum Coating Weight	4.9 lb/ream	8.0 g/m ²	Dow Method
Neck-in ²			Dow Method
12 g/m ² @ 500 m/min (320 °C)	5.2 in	133.0 mm	
15 g/m ² @ 100 m/min (320 °C)	6.7 in	170.0 mm	
25 g/m ² @ 300m/min (320 °C)	5.8 in	147.0 mm	

Notes

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

¹ 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.

² Neck-in of a blend of 75% AGILITY™ EC 7080 Performance LDPE and 25% AGILITY™ EC 7220 Performance LDPE. Coating onto paper substrate and/or coating web at 250 mm air gap and -15mm nip off-set.

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