Technical Information

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/cm³	0.918	g/cm³	ASTM D1505
Base Density [1]	0.918	g/cm³	0.918	g/cm³	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/m²	Dow Method
Neck-in [2]					Dow Method
12 g/m² @ 500 m/min (320 ºC)	5.2	in	133.0	mm	
15 g/m² @ 100 m/min (320 ºC)	6.7	in	170.0	mm	
25 g/m² @ 300m/min (320 ºC)	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.