Technical Information

AGILITY™ EC 7030 Performance LDPE
Low Density Polyethylene Resin

Overview

AGILITY™ EC 7030 Performance LDPE is a Low Density Polyethylene Resin designed for single layer and sealant application in extrusion coating. It is designed to run at maximum production line speed of 300 m/min, showing good neck-in results and draw ability to guarantee coating weights as low as 10 g/m2. At these conditions the processing performance of AGILITY™ EC 7030 Performance LDPE based on Dow's novel patented advanced tubular technology is similar to a traditional extrusion coating resin produced with an autoclave process and within the MFI range of 4 to 8 g/10min.

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.

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.918	g/cm³	0.918	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.5	g/10 min	2.5	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Stress [1]					ISO 527-2
Yield	1160	psi	8.00	MPa	
Break	1740	psi	12.0	MPa	
Tensile Strain [1] (Break)	450	%	450	%	ISO 527-2
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Vicat Softening Temperature	194	°F	90.0	°C	ASTM D1525
Additional Information	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Sealing Initial Temperature	221	°F	105	°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	6.1	lb/ream	10	g/m²	
Neck-in [2]					
12 g/m² @ 100 mpm : 608°F (320°C)	3.8	in	96.0	mm	Dow Method
12 g/m² @ 150 mpm : 608°F (320°C)	4.1	in	104.0	mm	Dow Method
12 g/m² @ 250 mpm : 608°F (320°C)	4.1	in	105.0	mm	

Notes

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

[1] Plates of 2 mm thickness

[2] Coating onto paper substrate and/or coating web at 250 mm air gap and -15mm nip off-set.