

Technical Information



AGILITY™ EC 7030 REN Performance LDPE

Low Density Polyethylene Resin

Overview

AGILITY™ EC 7030 REN 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 REN 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
- U.S. FDA-DMF
- ISCC PLUS certification for bio-circular plastics

Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.918 g/cm ³	0.918 g/cm ³	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/m ²	
Neck-in ²			
12 g/m ² @ 100 mpm : 608°F (320°C)	3.8 in	96.0 mm	Dow Method
12 g/m ² @ 150 mpm : 608°F (320°C)	4.1 in	104.0 mm	Dow Method
12 g/m ² @ 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.



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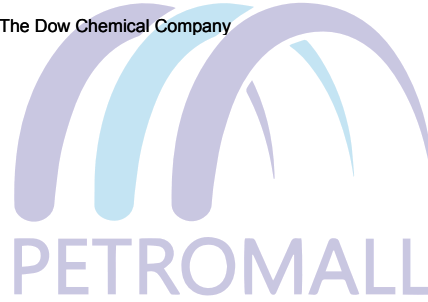
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