

DOW™ LDPE 7010E

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

LDPE 7010E is a High Speed Extrusion Coating Resin

Main Characteristics:

Designed for high speed extrusion coating

Robustness and consistency in melt drawing

Reliable Sealant

Complies with:

EU, No 10/2011

U.S. FDA 21 CFR 177.1520(c)2.2

Consult the regulations for complete details.

General Information			
Agency Ratings	EU No 10/2011		
	FDA 21 CFR 177.1520(c) 2.2		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.919	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	11.4	MPa	ISO 527-2
Tensile Strain (Break)	540	%	ISO 527-2
Flexural Modulus	209	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Water Vapor Transmission Rate ¹	0.67	g · mm/m ² /atm/24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	91.0	°C	ASTM D1525
Melting Temperature (DSC)	108	°C	Internal Method
Extrusion	Nominal Value	Unit	Test Method
Melt Temperature	260 to 320	°C	
Draw Down - From 15 g/m ² at 100 m/min ² (320°C)	480	m/min	Internal Method
Minimum Coating Weight - Calculated ³	6.0	g/m ²	Internal Method
Neck-in - 25 g/m ² at 100 m/min ⁴ (320°C)	152.0	mm	Internal Method
NOTE			
1.	1.0 mil (25µm) coating onto 50 lb Kraft paper.		
2.	25 g/m ² coating onto paper substrate and/or coating web at 250 mm air gap and -15 nip off-set.		

3.	25 g/m ² coating onto paper substrate and/or coating web at 250 mm air gap and -15 nip off-set.
4.	25 g/m ² coating onto paper substrate and/or coating web at 250 mm air gap and -15 nip off-set.

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