

AGILITY™ EC 7100 Performance LDPE

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

AGILITY EC 7100 Performance LDPE is an extrusion coating resin designed for thin high speed coatings. This resin can be readily processed using conventional LDPE extrusion coating hardware. For best sensory performance melt temperatures of preferably less than 290°C are chosen.

Applications:

Paper, board and foil coating for food and specialty packaging

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	0.928	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Tensile Strength ¹			ISO 527-3
MD	10.6	MPa	
TD	10.4	MPa	
Tensile Elongation ²			ISO 527-3
MD : Break	360	%	
TD : Break	400	%	
Seal Initiation Temperature ³	97.0	°C	Internal Method
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	104	°C	ASTM D1525
Melting Temperature	115	°C	Internal Method
Extrusion	Nominal Value	Unit	Test Method
Melt Temperature	260 to 335	°C	
Draw Down ⁴ (320°C)	700	m/min	Internal Method
Neck-in ⁵ (320°C)	176.0	mm	Internal Method

NOTE			
1.	25g/m ² coating onto Kraft paper substrate or coating web at 250 mm air gap and -15 mm nip off-set.Coatings applied on matte chill roll, surface RT 12 micron.		

2.	25g/m ² coating onto Kraft paper substrate or coating web at 250 mm air gap and -15 mm nip off-set.Coatings applied on matte chill roll, surface RT 12 micron.
3.	Temperatures at which 3 N/15mm heat seal strength is achieved.25g/m ² coating onto Kraft paper substrate or coating web at 250 mm air gap and -15 mm nip off-set.Heat Seal Strength measured at 0.5 sec sealing time, 0.5 N/mm ² pressure, 5 mm seal bar.Coatings applied on matte chill roll, surface RT 12 micron.
4.	Acceleration from 15g/m ² at 100 m/min
5.	25 g/m ² at 100 m/min

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

