

# DOW™ LDPE 4010

Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

Dow Polyethylene LDPE 4010 is a general purpose Extrusion Coating Resin.

It complies with:

European Commission Regulation (EU) No 10/2011.

Consult regulations for complete details.

General Information			
Agency Ratings	Europe 10/1/2011 12:00:00 AM		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	8.00	MPa	ISO 527-2
--	12.0	MPa	ISO 527-2
Tensile Strain (Break)	500	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	89.0	°C	ASTM D1525
Melting Temperature (DSC)	105	°C	Internal method
Additional Information			
Selection note: WVTR: Lyssy or Mocon Chill roll: matte or glossy Air gap:250mm or 200mm Nip Off-set : -15mm or 0mm Tset: 260, 290 or 320°C Substrate: Paper type (e.g. Kraft Paper) or Film type (OPP) - weight in g/m <sup>2</sup> or thickness in micron			
Extrusion	Nominal Value	Unit	Test Method
Neck-in <sup>1</sup> (290°C)	100.0	mm	Internal method
Drop down <sup>2</sup> (290°C)	230	m/min	Internal method
Minimum coating weight-Calculated <sup>3</sup> (290°C)	7.0	g/m <sup>2</sup>	Internal method
Extrusion instructions			
Fabrication Conditions for Extrusion Coatings: Laminator settings applied for extrusion processing: Air-gap = 250 mm Nip-off set = -15 mm Chill Roll glossy			

NOTE

- |    |   |
|----|---|
| 1. | 25g/m <sup>2</sup> coatings at selected running conditions                        |
| 2. | Acceleration from 15g/m <sup>2</sup> coating at selected set extruder temperature |
| 3. | Acceleration from 15g/m <sup>2</sup> coating at selected set extruder temperature |

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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

