



DOW™ LDPE 4010

The Dow Chemical Company - Low Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• North America
Additive	• Antiblock: No • Processing Aid: No • Slip: No
Agency Ratings	• EU 10/2011
Forms	• Pellets
Processing Method	• Extrusion Coating

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.920		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	10	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	1160	psi	ISO 527-2
Tensile Stress	1740	psi	ISO 527-2
Tensile Strain (Break)	500	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	192	°F	ASTM D1525
Melting Temperature (DSC)	221	°F	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/m² or thickness in micron

Processing Information

Extrusion	Nominal Value	Unit	Test Method
Draw Down ² (554°F)	740	ft/min	Internal Method
Minimum Coating Weight - Calculated ³ (554°F)	4.3	lb/ream	Internal Method
Neck-in ⁴ (554°F)	3.9	in	Internal Method

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Extrusion Notes

Fabrication Conditions for Extrusion Coatings:

- Laminator settings applied for extrusion processing:
 - Air-gap = 250 mm
 - Nip-off set = -15 mm
 - Chill Roll glossy

Notes

¹ Typical properties: these are not to be construed as specifications.

² Acceleration from 15g/m² coating at selected set extruder temperature

³ Acceleration from 15g/m² coating at selected set extruder temperature

⁴ 25g/m² coatings at selected running conditions