

# DOW™ LDPE PG 7008 (Extrusion Coating)

Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

Dow LDPE PG 7008 Polyethylene Resin is typically used in extrusion coating applications. Dow LDPE PG 7008 Polyethylene Resin can be readily processed using conventional LDPE extrusion coating hardware of melt temperatures of 270 to 335°C, preferably less than 290°C, for best sensory performance. Dow LDPE PG 7008 Polyethylene Resin provides low volatile organic carbon (VOC) emissions in extrusion, contributing to low factory emissions and optimal sensory performance. When processed on suitable hardware, Dow LDPE PG 7008 Polyethylene Resin exhibits excellent draw down good edge stability and low neck-in.

## Applications:

Paper, board and foil coatings for packaging, food and non-food

## Complies with:

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

EU, No 10/2011

Canadian HPFB No Objection

Consult the regulations for complete details.

General Information			
Agency Ratings	EU No 10/2011		
	FDA 21 CFR 177.1520(c) 2.2		
	HPFB (Canada) No Objection		
Forms	Pellets		
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)	7.7	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 2% Secant	160	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	8.00	MPa	
Break	10.0	MPa	
Tensile Elongation (Break)	450	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Seal Initiation Temperature <sup>1</sup>	105	°C	Internal Method
Water Vapor Transmission <sup>2</sup>	270	g/m <sup>2</sup> /24 hr	ASTM E398-83
Minimum Heat Seal Temperature	100 to 120	°C	Internal Method
Minimum Coating Weight <sup>3</sup>	5.0	g/m <sup>2</sup>	Internal Method
Neck-in <sup>4</sup>	65.0	mm	Internal Method
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	89.0	°C	ISO 306/A
Melting Temperature	106	°C	DSC
Extrusion	Nominal Value	Unit	Test Method
Melt Temperature	270 to 335	°C	

## NOTE

- |    |   |
|----|---|
| 1. | Temperature required to reach 3 N/15 mm for a 25 g/m <sup>2</sup> coating of PG 7008 onto paper |
| 2. | 38°C, 90% RH Divide by coating weight in g/m <sup>2</sup> to obtain actual WVTR.                |
| 3. | 290°C set temperature.  |
| 4. | 100 m/min, 25 g/m <sup>2</sup> coatings at 290°C set temperature.                               |

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