DOW™ LDPE PG 7008 (Extrusion Coating)
Low Density Polyethylene Resin

Overview

Dow LDPE PG 7008 Polyethylene Resin is typicalled 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.

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.918	g/cm³	0.918	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	7.7	g/10 min	7.7	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus - 2% Secant	23200	psi	160	MPa	ASTM D638
Tensile Strength					ASTM D638
Yield	1160	psi	8.00	MPa	
Break	1450	psi	10.0	MPa	
Tensile Elongation (Break)	450	%	450	%	ASTM D638
Films	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Seal Initiation Temperature [1]	221	°F	105	°C	Dow Method
Water Vapor Transmission [2]	17	g/100 in²/24 hr	270	g/m²/24 hr	ASTM E398-83
Minimum Heat Seal Temperature	212 to 248	°F	100 to 120	°C	Dow Method
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Vicat Softening Temperature	192	°F	89.0	°C	ISO 306/A
Melting Temperature	223	°F	106	°C	DSC

Extrusion	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Melt Temperature	518 to 635	°F	270 to 335	°C	
Minimum Coating Weight [3]	3.1	lb/ream	5.0	g/m²	Dow Method
Neck-in [4]	2.6	in	65.0	mm	Dow Method

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

[1] Temperature required to reach 3 N/15 mm for a 25 g/m2 coating of PG 7008 onto paper

[2] 38°C, 90% RH
Divide by coating weight in g/m² to obtain actual WVTR.

[3] 290°C set temperature.

[4] 100 m/min, 25 g/m² coatings at 290°C set temperature.

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