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DOW™ LDPE PG 70 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	L.	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
Molding Shrinkage - Flow (42)	3°F (220°C))	0.026	in/in	2.6	%	ASTM D955 '
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		221	°F	105	°C	Dow Method ²
Water Vapor Transmission		17	g/100 in ² /24 hr	270	g/m²/24 hr	ASTM E398-83 ³
Minimum Heat Seal Temperat	ure	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		3.1	lb/ream	5.0	g/m²	Dow Method 4
Neck-in		2.6	in	65.0	mm	Dow Method ⁵

Notes

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

Divide by coating weight in g/m² to obtain actual WVTR.

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¹ 0.5 seconds injection.

² Temperature required to reach 3 N/15 mm for a 25 g/m2 coating of PG 7008 onto paper

^{3 38°}C. 90% RH

⁴ 290°C set temperature.

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

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