DOW™ LDPE 5005

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

Polyethylene 5005 Low Density is used for fresh milk cartons, liquid/juice containers, dry foods packaging, snack foods packaging, moist foods packaging, and medical packaging. DOW LDPE extrusion coating resins provide optimal neck-in and draw-down performance with minimal taste/odor contribution. Main Characteristics:

A low melt index coating resin for demanding packaging applications

Complies with:

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

Consult the regulations for complete details.

FDA 21 CFR 177.1520(c) 2.2		
Particle		
Extrusion coating		
Nominal Value	Unit	Test Method
0.922	g/cm³	ASTM D792
5.7	g/10 min	ASTM D1238
Nominal Value	Unit	Test Method
105	°C	Internal method
0.59	g·mm/m²/atm/24 hr	ASTM F1249
Nominal Value	Unit	Test Method
97.2	°C	ASTM D1525
111	°C	Internal method
Nominal Value	Unit	Test Method
316 - 332	°C	
53.3	mm	Internal method
7.6	m/sec	Internal method
7.6	μm	Internal method
7.2	g/m²	Internal method
	Particle	Particle Extrusion coating Nominal Value Unit 0.922 g/cm³ 5.7 g/10 min Nominal Value Unit 105 °C 0.59 g·mm/m²/atm/24 hr Nominal Value Unit 97.2 °C 111 °C Nominal Value Unit 316 - 332 °C 53.3 mm 7.6 m/sec 7.6 μm

Fabrication Conditions For Extrusion Coating Film:

Screw Size: 3.5 in. (89 mm); 30:1 L/D/Size Screw Type: Single Flight with Maddock Mixer

Die Gap: 20 mil (0.508 mm) Melt Temperature: 625°F (329°C)

Output: 250 lb/hr Screw Speed: 90 rpm

NOTE

	Temperature at which 1 lb/in (4.4
	N/25.4 mm) heat seal strength is
	achieved.Heat Seal Strengths,
	Topwave HT Tester 0.5 s dwell, 40
	psi bar pressure, pull speed 10
1.	in/min.
	1.0 mil (25 μm) coating onto 50 lb
2.	Kraft paper

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