

DOW™ LDPE PT 7007

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW LDPE PT 7007 Polyethylene Resin is a low density polyethylene suitable designed for extrusion coating applications. DOW LDPE PT 7007 Polyethylene Resin has been designed to offer minimum volatile organic carbon (VOC) levels for use in extrusion coating, contributing to low factory emissions and optimal sensory performance.

DOW LDPE PT 7007 Polyethylene Resin exhibits:

Excellent draw down.

Good edge stability.

Low neck-in.

Note: DOW LDPE PT 7007 Polyethylene Resin should comply with U.S. FDA CFR 177.1520(c)2.2 and with EU, No 10/2011 when used unmodified and processed according to good manufacturing practices for food contact applications. Please contact your nearest office regarding food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

Applications:

Paper.

Board and foil coatings for packaging.

Food and non-food.

General Information			
Agency Ratings	EU No 10/2011		
	FDA 21 CFR 177.1520(c) 2.2		
Forms	Pellets		
Processing Method	Extrusion Coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	8.00	MPa	
Break	10.0	MPa	
Tensile Strain (Break)	400	%	ISO 527-2
Films	Nominal Value	Unit	Test Method
Seal Initiation Temperature ¹	105	°C	Internal Method
Water Vapor Transmission ²	260	g/m ² /24 hr	ASTM E398-83
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	89.0	°C	ISO 306/A
Extrusion	Nominal Value	Unit	Test Method
Melt Temperature	270 to 335	°C	
Minimum Coating Weight ³	5.0	g/m ²	Internal Method
Neck-in			Internal Method
-- ⁴	65.0	mm	
-- ⁵	75.0	mm	

-- 6	70.0	mm
NOTE		
1.	Temperature required to reach 3 N/15 mm for a 25 g/m ² coating of LDPE PT 7007 Polyethylene Resin onto paper.	
2.	23°C, 90% RH Divide by coating weight in g/m ² to obtain actual WVTR, e.g. at 20 g/m ² LDPE PT 7007 Polyethylene Resin the WVTR is 378/20= 18.9 g/m ² day	
3.	At 320°C set temperature.	
4.	100 m/min, 25 g/m ² coatings at 290°C set temperature.	
5.	300 m/min, 25 g/m ² coatings at 290°C set temperature.	
6.	200 m/min, 25 g/m ² coatings at 290°C set temperature.	

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