

DOW™ LDPE 525E

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW LDPE 525E low density polyethylene resin is easy to process using common blow film technology, and the melt temperature range is 160 to 195°C. When prepared, this resin has excellent mechanical properties, and can maintain stability even when its density is high (high stiffness) compared with standard resins, while maintaining very high transparency and gloss. It has good drafting performance and processing performance. The product does not contain slip agent or anti-blocking agent.

Note: When applied to the application field of contact food, DOW LDPE 525E low density polyethylene should comply with U.S. Food and Drug Administration Regulations 21 CFR 177.1520(c)2.2, EU, No 10/2011 without modification and when the processing process follows the requirements of good manufacturing practices. Please contact your nearest Dow representative for proof of compliance with the Food Contact Act. The purchaser remains responsible for determining whether the use of its products complies with all relevant regulations.

Application field:

high transparency composite film

label film

packaging of soft items, such as facial tissue, toilet paper, women's hygiene products, etc.

high transparency paper towel packaging film

fresh food packaging bag

food packaging film

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.2	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Tensile Modulus			ISO 527-3
2% secant, MD: 50 µm	290	MPa	ISO 527-3
2% secant, TD: 50 µm	250	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm	15.0	MPa	ISO 527-3
TD: Yield, 50 µm	14.0	MPa	ISO 527-3
MD: Break, 50 µm	19.0	MPa	ISO 527-3
TD: Break, 50 µm	14.5	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 50 µm	440	%	ISO 527-3
TD: Break, 50 µm	530	%	ISO 527-3
Dart Drop Impact (50 µm)	85	g	ISO 7765-1/A
Elmendorf Tear Strength			ASTM D1922

MD : 50 μm	240	g	ASTM D1922
TD : 50 μm	180	g	ASTM D1922
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 195	°C	
Extrusion instructions			

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