DOW™ LDPE 582E

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW LDPETM 582E polyethylene resin can be extruded by ordinary blown film process, and the melt temperature is between 150 and 170°C. At the time of preparation, DOW LDPE 582E polyethylene resin had good mechanical properties and high optical properties. The product has good drafting performance and excellent processing performance. This product contains slip agent and opening agent. regulatory requirements: DOW LDPE 582E polyethylene resin shall meet the following regulatory requirements: U.S. food and drug administration regulation 21 CFR 177.1520(c) 2.2 EU, No 10/2011 U.S. FDA-DMF please consult the regulations for complete details.

Application field: small portion fresh food bag soft article packaging textile packaging

high transparency use

General information			
Additive	Anti-caking agent		
	slip agent		
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 2.2		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.923	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	3.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.16 - 0.20		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	μm	
secant modulus			
			ASTIVI D882
2% secant, MD: 50 μm	190	MPa	ASTM D882
2% secant, MD: 50 μm 2% secant, TD: 50 μm	190 175	MPa MPa	ASTM D882 ASTM D882 ASTM D882
2% secant, MD: 50 μm 2% secant, TD: 50 μm Tensile Strength	190 175	MPa MPa	ASTM D882 ASTM D882 ASTM D882 ASTM D882
2% secant, MD: 50 μm 2% secant, TD: 50 μm Tensile Strength MD: Yield, 50 μm	190 175 9.00	MPa MPa MPa	ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882
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2% secant, MD: 50 μm 2% secant, TD: 50 μm Tensile Strength MD: Yield, 50 μm TD: Yield, 50 μm MD: Break, 50 μm	190 175 9.00 9.00 17.0	MPa MPa MPa MPa MPa	ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882
2% secant, MD: 50 μm 2% secant, TD: 50 μm Tensile Strength MD: Yield, 50 μm TD: Yield, 50 μm MD: Break, 50 μm	190 175 9.00 9.00 17.0 15.0	MPa MPa MPa MPa MPa MPa	ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882 ASTM D882
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MD: Break, 50 µm	450	%	ASTM D882
TD: Break, 50 µm	650	%	ASTM D882
Dart Drop Impact (50 µm)	120	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm	500	g	ASTM D1922
TD : 50 μm	400	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	93.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (20°, 50.0 µm)	70		ASTM D2457
Haze (50.0 µm)	7.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	150 - 170	°C	
Extrusion instructions			
放大比 1:2.5			

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