

# DOW™ LDPE 450E

Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

DOW LDPE 450 E low density polyethylene resin has the best balance between melt strength and stretch, and has excellent performance in the extrusion processing of cast films, foaming materials, blown films and bubble films. When prepared, DOW LDPE 450 E has the following properties: excellent processing properties; small necking (cast film); good toughness and impact resistance; and good tear strength. During foaming extrusion molding, DOW LDPE 450 E has an excellent balance between cell growth and stability, so that products with very low density will not produce voids in the production process.

Main features:

cast film

Foaming material

Bubble film

general blown film

EU, No 10/2011.

meets the requirements 2.2 by FDA Regulation 21 CFR 177.1520(c). Please check the regulations for complete details.

Canadian HPFB No Objection

slip agent content: none

opening agent content: none

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
	HPFB (Canada) No Objection		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
	Foam extrusion molding		
	cast film		
	Foam treatment		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.923	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Tensile Strength			ASTM D882
MD: Yield, 50 µm	10.3	MPa	ASTM D882
TD: Yield, 50 µm	12.2	MPa	ASTM D882
MD: Break, 50 µm	20.9	MPa	ASTM D882
TD: Break, 50 µm	18.1	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 50 µm	400	%	ASTM D882
TD: Break, 50 µm	550	%	ASTM D882

Dart Drop Impact (50 µm)	110	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm	430	g	ASTM D1922
TD : 50 µm	370	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	99.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (20°, 50.0 µm)	66		ASTM D2457
Haze (50.0 µm)	7.5	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	193	°C	
Extrusion instructions			

吹塑薄膜的制造条件:

熔体温度:193°C

放大比:1 比 2.5

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#### Recommended distributors for this material

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