

# DOW™ LDPE 410E

Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

DOW LDPE 410E low density polyethylene resin is a high transparency resin, used for composite film and high transparency packaging film processing. The resin does not contain slip agent and opening agent, and can be extruded by a common blown film process. The processing melting temperature is between 170 and 195°C, and the melt temperature of the cast film is between 180 and 240°C. At the time of preparation, this resin has the characteristics of excellent processability and drafting properties, excellent toughness and impact resistance, excellent optical properties, and excellent tensile strength and tear strength.

Application field:

composite film

food packaging film

Sanitary film

cast film

Bubble film

Foamed PE

Extrusion coating

Complies with:

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

EU, No 10/2011

Consult the regulations for complete details.

General Information			
Agency Ratings		FDA 21 CFR 177.1520(c) 2.2	
		Europe No 10/2011	
Forms		Particle	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.925	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic)	0.60 - 0.80		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
secant modulus			ASTM D882
2% secant, MD: 50 µm	190	MPa	ASTM D882
2% secant, TD: 50 µm	200	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 50 µm	10.0	MPa	ASTM D882
TD: Yield, 50 µm	11.0	MPa	ASTM D882
MD: Break, 50 µm	22.0	MPa	ASTM D882
TD: Break, 50 µm	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 50 µm	450	%	ASTM D882
TD: Break, 50 µm	650	%	ASTM D882

Dart Drop Impact (50 µm)	110	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	96.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (20°, 50.0 µm)	80		ASTM D2457
Haze (50.0 µm)	6.9	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	170 - 195	°C	
Extrusion instructions			

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