

DOW™ LDPE 410E

The Dow Chemical Company - Low Density Polyethylene

Units SI V

Action

Legend (Open)

General Information

Product Description

DOW LDPE 410E Low Density Polyethylene Resin is a high clarity resin designed for lamination film and clarity over wrap applications. This resin does not contain slip and antiblock additives. It can be readily extruded using conventional blown film techniques utilising melt temperatures between 170 and 195°C; and cast film using temperatures between 180 and 240 °C. This resin when properly fabricated shows: excellent processability and draw down, outstanding toughness and impact properties, superior optical properties, excellent tensile and tear strength.

Applications:

- · Lamination films
- · Food packaging films
- Hygiene films
- Cast films
- · Air-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			
Material Status	Commercial: Active		
Availability	Europe		
Agency Ratings	• EU No 10/2011	 FDA 21 CFR 177.1520(c) 	
		2.2	
Forms	• Pollets		

ASTM & ISO Properties ¹				
Nominal Value Unit	Test Method			
0.925 g/cm³	ASTM D792			
2.0 g/10 min	ISO 1133			
Nominal Value Unit	Test Method			
0.60 to 0.80	ASTM D1894			
Nominal Value Unit	Test Method			
50 μm				
190 MPa	ASTM D882			
200 MPa	ASTM D882			
10.0 MPa	ASTM D882			
11.0 MPa	ASTM D882			
22.0 MPa	ASTM D882			
20.0 MPa	ASTM D882			
450 %	ASTM D882			
650 %	ASTM D882			
110 g	ASTM D1709A			
500 g	ASTM D1922			
400 g	ASTM D1922			
Nominal Value Unit	Test Method			
96.0 °C	ISO 306/A			
Nominal Value Unit	Test Method			
	Nominal Value Unit 0.925 g/cm³ 2.0 g/10 min Nominal Value Unit 0.60 to 0.80 Nominal Value Unit 50 μm 190 MPa 200 MPa 10.0 MPa 11.0 MPa 22.0 MPa 22.0 MPa 22.0 MPa 450 % 650 % 110 g 500 g 400 g Nominal Value Unit 96.0 °C			

Gloss (20°, 50.0 μm)	80	ASTM D2457	
Haze (50.0 μm)	6.90 %	ASTM D1003	
Processing Information			
Extrusion	Nom	Nominal Value Unit	
Melt Temperature	170 to 195 °C		
Extrusion Notes			
Blow-up ratio 1:2.5			
Notes			
¹ Typical properties: these are not to be construed as specifications.			

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