



DOW LDPE 582E

Low Density Polyethylene Resin

DOW LDPE™ 582E Polyethylene Resin can be readily extruded using conventional blown film techniques utilising melt temperatures between 150 and 170 °C. DOW LDPE 582E Polyethylene Resin, when properly fabricated, shows good mechanical properties and high optical properties. It shows very good drawdown properties and excellent processability. This product contains slip and antiblock additives.

Regulations:

DOW LDPE 582E Polyethylene Resin should comply with:

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

Europe EU-Directive 2002/72/EC

Consult the regulations for complete details.

Applications:

- Light produce bags.
- Soft goods packaging.
- Textile packaging.
- High clarity applications.

Physical Properties ⁽¹⁾	Unit	Test Method	Values
Melt Index, 190 °C/2.16 kg	g/10 min	ISO 1133	3.5
Density	g/cm ³	ASTM D-792	0.923
Vicat Softening Point	°C	ISO 306 (Method A)	93
Film Properties, 50 µm thickness ^(1,2)	Unit	Test Method	Values
Dart Impact	g	ASTM D-1709	115
Elmendorf Tear	g	MD	500
		CD	400
Tensile Yield	MPa	MD	9
		CD	9
Ultimate Tensile	MPa	MD	17
		CD	15
Ultimate Elongation	%	MD	450
		CD	650
Tensile Modulus, 2% Secant	MPa	MD	190
		CD	175
Optical Properties			
Gloss 20°	units	ASTM D-2457	70
Haze	%	ASTM D-2457	7
Coefficient of Friction		ASTM D-1894	0.16-0.2

(1) Typical values; not to be construed as specification limits.

(2) Blow-Up ratio 1:2.5.

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- c. use as a critical component in medical devices that support or sustain human life; or
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