



# DOW™ LDPE 535E

## Low Density Polyethylene Resin

### Overview

DOW LDPE 535E is a 0.6 melt index, medium density LDPE suitable for shrink film application offering a good balance between shrink performance (hot and cold shrink), optical properties such as high gloss and low haze and mechanical performance.

Main Characteristics:

- LOW Density Polyethylene Resin
- Blown Film Extrusion
- Collation Shrink Film

Complies with:

- U.S. FDA U.S. FDA 177.1520(c) 2.2
- EU, No 10/2011
- Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.928 g/cm <sup>3</sup>	0.928 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	0.60 g/10 min	0.60 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Coefficient of Friction	0.30 to 0.45	0.30 to 0.45	ASTM D1894
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2 mil	50 µm	
Secant Modulus			ASTM D882
2% Secant, MD : 2.0 mil (50 µm), Blown Film	30600 psi	211 MPa	
2% Secant, TD : 2.0 mil (50 µm), Blown Film	31800 psi	219 MPa	
Tensile Strength			ASTM D882
MD : Yield, 2.0 mil (50 µm), Blown Film	1740 psi	12.0 MPa	
TD : Yield, 2.0 mil (50 µm), Blown Film	1890 psi	13.0 MPa	
MD : Break, 2.0 mil (50 µm), Blown Film	3190 psi	22.0 MPa	
TD : Break, 2.0 mil (50 µm), Blown Film	2900 psi	20.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (50 µm), Blown Film	370 %	370 %	
TD : Break, 2.0 mil (50 µm), Blown Film	530 %	530 %	
Dart Drop Impact			ASTM D1709A
2.0 mil (50 µm), Blown Film	120 g	120 g	
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (50 µm), Blown Film	230 g	230 g	
TD : 2.0 mil (50 µm), Blown Film	230 g	230 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	219 °F	104 °C	ASTM D1525
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 1.97 mil (50.0 µm))	62	62	ASTM D2457
Haze (1.97 mil (50.0 µm))	8.30 %	8.30 %	ASTM D1003

### Extrusion Notes

Fabrication Conditions For Blown Film:

- Blow-Up Ratio: 1 to 2.5

### Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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