



# DOW™ LDPE 330E

## Low Density Polyethylene Resin

### Overview

DOW LDPE 330E is a fractional melt index low density polyethylene resin. DOW LDPE 330E has been specially designed for the protective film market where high optical properties and very low gel levels are required.

#### Main Characteristics:

- High optical properties
- Very low gel levels
- Excellent tensile and tear strength
- Excellent shrink properties

#### Complies with:

- U.S. FDA 21 CFR 177.1520(c)2.2
- EU, No 10/2011
- Consult the regulations for complete details.

Slip Additive: 0 ppm

Antiblock Additive: 0 ppm

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.924 g/cm <sup>3</sup>	0.924 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	0.75 g/10 min	0.75 g/10 min	ASTM D1238
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)	23100 psi	159 MPa	
2% Secant, TD : 2.0 mil (50 µm)	23600 psi	163 MPa	
Tensile Strength			ASTM D882
MD : Yield, 2.0 mil (50 µm)	1600 psi	11.0 MPa	
TD : Yield, 2.0 mil (50 µm)	1600 psi	11.0 MPa	
MD : Break, 2.0 mil (50 µm)	2900 psi	20.0 MPa	
TD : Break, 2.0 mil (50 µm)	2610 psi	18.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (50 µm)	390 %	390 %	
TD : Break, 2.0 mil (50 µm)	520 %	520 %	
Dart Drop Impact (2.0 mil (50 µm))	140 g	140 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (50 µm)	240 g	240 g	
TD : 2.0 mil (50 µm)	260 g	260 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	210 °F	99.0 °C	ASTM D1525
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 1.97 mil (50.0 µm))	56	56	ASTM D2457
Haze (1.97 mil (50.0 µm))	9.00 %	9.00 %	ASTM D1003

### 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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