



# DOW™ LDPE 515E

## Low Density Polyethylene Resin

### Overview

DOW LDPE 515E Low Density Polyethylene Resin is a 3.2 melt index, medium density LDPE resin for the high-speed tissue overwrap market offering a good balance between optical properties such as gloss and haze, stiffness and low COF. This product contains slip and antiblock additives.

Note: DOW LDPE 515E Low Density Polyethylene Resin should comply with FDA regulation 177.1520(c)2.2 and with most European food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications. Please contact you nearest Dow office for food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

#### Applications:

- Packaging of soft products such as hand tissues, toilet tissues, feminine hygiene products
- High clarity tissues overwrap

### Additive

- Antiblock
- Slip

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.931 g/cm <sup>3</sup>	0.931 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	3.2 g/10 min	3.2 g/10 min	ISO 1133
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1 mil	30 µm	
Film Toughness - MD (1.2 mil (30 µm))	568 ft-lb/in <sup>3</sup>	47.0 J/cm <sup>3</sup>	ISO 527-3
Tensile Stress			ISO 527-3
MD : Yield, 1.2 mil (30 µm)	2220 psi	15.3 MPa	
TD : Yield, 1.2 mil (30 µm)	2190 psi	15.1 MPa	
MD : Break, 1.2 mil (30 µm)	2540 psi	17.5 MPa	
TD : Break, 1.2 mil (30 µm)	2200 psi	15.2 MPa	
Tensile Elongation			ISO 527-3
MD : Break, 1.2 mil (30 µm)	300 %	300 %	
TD : Break, 1.2 mil (30 µm)	70 %	70 %	
Dart Drop Impact (1.2 mil (30 µm))	120 g	120 g	ISO 7765-1/A
Elmendorf Tear Strength			ASTM D1922
MD : 1.2 mil (30 µm)	130 g	130 g	
TD : 1.2 mil (30 µm)	190 g	190 g	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 1.18 mil (30.0 µm))	71	71	ASTM D2457
Haze (1.18 mil (30.0 µm))	7.00 %	7.00 %	ISO 14782

### 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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- use as a critical component in medical devices that support or sustain human life; or
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This document is intended for use within Europe

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