



# DOW™ LDPE 303E

## Low Density Polyethylene Resin

### Overview

DOW LDPE 303E Low Density Polyethylene Resin contains no slip or antiblock additives. DOW LDPE 303E Low Density Polyethylene Resin can readily be extruded using the blown film techniques utilising melt temperatures between 160 and 200 ° C.

Main Characteristics:

- Good draw down (30µm)
- Good mechanical properties.
- Good optics

Applications:

- Industrial and semiindustrial shrink films.
- Heavy duty bags.
- Construction films

Complies with:

- Canadian HPFB No Objection
- U.S. FDA-DMF
- U.S. FDA 21 CFR 177.1520(c)2.2
- EU, No 10/2011

Consult the regulation for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.922 g/cm <sup>3</sup>	0.922 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	0.30 g/10 min	0.30 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	8 mil	200 µm	
Tensile Strength			ASTM D882
MD : Yield, 7.9 mil (200 µm)	1450 psi	10.0 MPa	
TD : Yield, 7.9 mil (200 µm)	1600 psi	11.0 MPa	
MD : Break, 7.9 mil (200 µm)	3340 psi	23.0 MPa	
TD : Break, 7.9 mil (200 µm)	3480 psi	24.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 7.9 mil (200 µm)	580 %	580 %	
TD : Break, 7.9 mil (200 µm)	720 %	720 %	
Dart Drop Impact (7.9 mil (200 µm))	700 g	700 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 7.9 mil (200 µm)	900 g	900 g	
TD : 7.9 mil (200 µm)	1400 g	1400 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	208 °F	98.0 °C	ASTM D1525

### Extrusion Notes

Blow-up ratio 1:2.5

### Notes

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

