



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 ³	0.924 g/cm ³	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.

