



DOW™ LLDPE 1613

Linear Low Density Polyethylene Resin

Overview

Dow LLDPE 1613 is a Linear Low Density Polyethylene Resin, 1-hexene copolymer, produced in the Solution process. This resin is designed to be used in blown extrusion to produce films for industrial applications and consumer packaging.

Complies with:

- U.S. FDA, 21 CFR 177.1520(c)3.2a
- Europe Commission Regulation (EU) No 10/2011 (See Notes)

Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.923 g/cm ³	0.923 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	1.3 g/10 min	1.3 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2 mil	51 µm	
Film Puncture Resistance	122 ft-lb/in ³	10.1 J/cm ³	Dow Method
Secant Modulus			ASTM D882
2% Secant, MD : 2.0 mil (51 µm)	29300 psi	202 MPa	
2% Secant, TD : 2.0 mil (51 µm)	33500 psi	231 MPa	
Tensile Strength			ASTM D882
MD : Yield, 2.0 mil (51 µm)	1670 psi	11.5 MPa	
TD : Yield, 2.0 mil (51 µm)	1800 psi	12.4 MPa	
MD : Break, 2.0 mil (51 µm)	5250 psi	36.2 MPa	
TD : Break, 2.0 mil (51 µm)	5310 psi	36.6 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (51 µm)	880 %	880 %	
TD : Break, 2.0 mil (51 µm)	950 %	950 %	
Dart Drop Impact (2.0 mil (51 µm))	260 g	260 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (51 µm)	750 g	750 g	
TD : 2.0 mil (51 µm)	1000 g	1000 g	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 2.00 mil (50.8 µm))	46	46	ASTM D2457
Haze (2.00 mil (50.8 µm))	20.0 %	20.0 %	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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This document is intended for use within Latin America

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