



DOW™ LLDPE 1648

Linear Low Density Polyethylene Resin

Overview LLDPE 1648 is a linear low density polyethylene, hexene copolymer, designated for cast stretch film applications, such as industrial pallet wrap.

- Linear low density polyethylene
- For industrial pallet wrap stretch film applications

Complies with :

- US FDA 21 CFR 177.1520 (c) 3.2a
- EU, No 10/2011
- Consult the regulations for complete details

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.920 g/cm ³	0.920 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	3.5 g/10 min	3.5 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1 mil	38 µm	
Film Puncture Resistance (1.5 mil (38 µm))	108 ft·lb/in ³	8.94 J/cm ³	Dow Method
Tensile Strength			ASTM D882
MD : Yield, 1.5 mil (38 µm)	1380 psi	9.50 MPa	
TD : Yield, 1.5 mil (38 µm)	1380 psi	9.50 MPa	
MD : Break, 1.5 mil (38 µm)	3290 psi	22.7 MPa	
TD : Break, 1.5 mil (38 µm)	3060 psi	21.1 MPa	
Tensile Elongation			ASTM D882
MD : Break, 1.5 mil (38 µm)	920 %	920 %	
TD : Break, 1.5 mil (38 µm)	960 %	960 %	
Elmendorf Tear Strength			ASTM D1922
MD : 1.5 mil (38 µm)	480 g	480 g	
TD : 1.5 mil (38 µm)	740 g	740 g	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 1.48 mil (37.5 µm))	45	45	ASTM D2457
Haze (1.48 mil (37.5 µm))	14.3 %	14.3 %	ASTM D1003
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	403 °F	206 °C	

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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