

# ExxonMobil™ LLDPE LL 1004AY Film

## Linear Low Density Polyethylene Resin

### Product Description

LL 1004AY is an LLDPE grade, offering excellent high temperature stability. Properties may be further enhanced by the combination with Exceed mLLDPE.

### General

Availability <sup>1</sup>	▪ Africa & Middle East	▪ Europe	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Cast Film ▪ Cast Stretch Film	▪ Food packaging ▪ Form Fill And Seal Packaging	▪ General Packaging
Revision Date	▪ 06/30/2016		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.918 g/cm <sup>3</sup>	0.918 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	2.8 g/10 min	2.8 g/10 min	ASTM D1238
Peak Melting Temperature	248 °F	120 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Break MD	7400 psi	50 MPa	ASTM D882
Tensile Strength at Break TD	3300 psi	23 MPa	ASTM D882
Elongation at Break MD	530 %	530 %	ASTM D882
Elongation at Break TD	840 %	840 %	ASTM D882
Secant Modulus MD - 1% Secant	20000 psi	140 MPa	ASTM D882
Secant Modulus TD - 1% Secant	21000 psi	150 MPa	ASTM D882
Dart Drop Impact	40 g	40 g	ASTM D1709A
Elmendorf Tear Strength MD	40 g	40 g	ASTM D1922
Elmendorf Tear Strength TD	340 g	340 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	95	95	ASTM D2457
Haze	1.7 %	1.7 %	ASTM D1003

### Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

### Processing Statement

The film properties have been measured in a 21 µm (0.83 mil) thick cast film, extruded on a cast film line at 238 m/min (780 ft/min) line speed and temperature setting of 288 °C (550 F).

### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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