ExxonMobil™ LLDPE LL 1004AY Cast

Linear Low Density Polyethylene Resin

Product Description

LL 1004AY is an LLDPE grade, offering excellent high temperature stability. Properties may be further enhanced by combining with Exceed™ mLLDPE. TnPP is not intentionally added to LL 1004AY resin.

General

Availability [1]	▪ Africa & Middle East	▪ Europe	▪ Latin America
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/cm³	0.918	g/cm³	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

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

Tris(nonylphenol)phosphite (TNPP) CAS# 26523-78-4 is not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for its presence, based on product composition knowledge this substance is not expected to be present. However, the fact that this substance is not intentionally used by ExxonMobil in this product does not exclude that trace levels of this substance may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process.

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

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.

[1] 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

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