Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ C4LL 2018.AY

C4 Linear Low Density Polyethylene

Product Description

ExxonMobil™ C4LL 2018.AY is a butene C4LL 2018.AY designed for the blownfilm process, offering high gloss and excellent draw down. Films made C4LL 2018.AY have very good tensile and toughness properties. TnPP is not intentionally added to C4LL 2018.AY.

General

Availability [1]	▪ Asia Pacific	▪ Europe	▪ Latin America
Additive	▪ LL 1002AY: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes		
Applications	▪ Agricultural Film ▪ Bag in Box ▪ Blown Film ▪ Cast Film ▪ Food Packaging ▪ Form Fill And Seal Packaging ▪ Freezer Film	▪ Garment Film ▪ General Packaging ▪ Industrial Packaging ▪ Institutional Can Liners ▪ Lamination Film ▪ Liners ▪ Mulch Film	▪ Multilayer Packaging Film ▪ Packaging Films ▪ Personal Care ▪ Produce Bags On A Roll ▪ Shoppers ▪ Trash Can Liners
Revision Date	▪ 01/01/2019		

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)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Peak Melting Temperature	250	°F	121	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	1400	psi	9.4	MPa	ASTM D882
Tensile Strength at Yield TD	1300	psi	8.9	MPa	ASTM D882
Tensile Strength at Break MD	7100	psi	49	MPa	ASTM D882
Tensile Strength at Break TD	4200	psi	29	MPa	ASTM D882
Elongation at Break MD	590	%	590	%	ASTM D882
Elongation at Break TD	800	%	800	%	ASTM D882
Secant Modulus TD - 1% Secant	32000	psi	220	MPa	ASTM D882
Dart Drop Impact	70	g	70	g	ASTM D1709A
Elmendorf Tear Strength MD	90	g	90	g	ASTM D1922
Elmendorf Tear Strength TD	400	g	400	g	ASTM D1922

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	76		76		ASTM D2457
Haze	4.4	%	4.4	%	ASTM D1003

Legal Statement

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.

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

Processing Statement

The test specimen was prepared and tested at our European Technology Center using a 25.4 µm (1.0 mil) thick film (screw diameter = 75 mm, die gap = 2.5 mm, BUR = 2.5 and temperature setting of 200°C). Optical film properties have been measured on a 25.4 µm thick film with addition of 10% LDPE at the same conditions.

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.

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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