



Product Datasheet



# ExxonMobil™ C4LL 2018.AY Cast

(Legacy name: ExxonMobil™LLDPE LL 1002AY Cast)
C4 Linear Low Density Polyethylene

## **Product Description**

ExxonMobil™ C4LL 2018.AY is an LLDPE resin designed for cast films. It offers high gloss and excellent drawdown in both blown and cast film applications. C4LL 2018.AY may also be used as a blend partner with LDPEresins to improve film properties and processability. TnPP is not intentionally added to C4LL 2018.AY resin.

General						
Availability <sup>1</sup>	<ul> <li>Asia Pacific</li> </ul>	• E	игоре	<ul> <li>Latin America</li> </ul>		
Additive	<ul> <li>Antiblock: No</li> </ul>		rocessing Aid: No			
	<ul> <li>Slip: No</li> </ul>	• T	hermal Stabilizer: Yes			
Applications	<ul> <li>Cast Film</li> </ul>	• G	General Packaging	<ul> <li>Personal 0</li> </ul>	Care	
	<ul> <li>Cast Stretch Film</li> </ul>		<ul> <li>Hygiene film</li> </ul>			
	<ul> <li>Garment Film</li> </ul>	• P	ackaging Films			
Revision Date	• 07/16/2018					
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	
	T : 12/1	/E !:   )	T : 1741	(61)	T . D . LO	
ilm Properties	Typical Value		Typical Value		Test Based On	
Tensile Strength at Yield MD		psi		MPa	ASTM D882	
Tensile Strength at Yield TD	940	psi		MPa	ASTM D882	
Tensile Strength at Break MD		psi		MPa	ASTM D882	
Tensile Strength at Break TD	3600	psi		MPa	ASTM D882	
Elongation at Break MD	420	%	·=·		ASTM D882	
Elongation at Break TD	830		830		ASTM D882	
Secant Modulus MD - 1% Secant	17000	psi		MPa	ASTM D882	
Secant Modulus TD - 1% Secant	19000	psi		MPa	ASTM D882	
Dart Drop Impact	< 50		< 50		ASTM D1709A	
Elmendorf Tear Strength MD	20	g	20	g	ASTM D1922	
Elmendorf Tear Strength TD	430	g	430	g	ASTM D1922	
Puncture Force	10	lbf	43	N	ExxonMobil Method	
Puncture Energy	21	in·lb	2.3	J	ExxonMobil Method	
Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Gloss (45°)	98		98		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).

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**

Film (0.8 mil / 20.3 micron) made from LL 1002AY on a 3.5 inch (88.9 mm) cast film line with a 5 inch (14 cm) melt curtain length, a 534°F (279°C) melt temperature, 80°F (26.7°C) chill roll temperature and 750 fpm (229 mpm) line speed.

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 Exxon/Mobil
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#### 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.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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