

# ExxonMobil™ C6LL 3218 Series

(Legacy name: ExxonMobil™ LLDPE LL 3003 Series)

## C6 Linear Low Density Polyethylene

### Product Description

ExxonMobil™ C6LL 3218 Series are ethylene 1-hexene copolymer linear low density polyethylene cast film resins. Films made from ExxonMobil™ C6LL 3218 resins have outstanding tensile properties, as well as stiffness and toughness. These superior properties, along with excellent drawability, make ExxonMobil™ C6LL 3218 versatile packaging film resins.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>ExxonMobil™ C6LL 3218.39: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes</li> <li>ExxonMobil™ C6LL 3218.32: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Cast Film</li> <li>Cast Stretch Film</li> <li>Packaging Films</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>06/11/2020</li> </ul>

### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.918 g/cm <sup>3</sup>	0.918 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	3.2 g/10 min	3.2 g/10 min	ASTM D1238
Peak Melting Temperature	255 °F	124 °C	ExxonMobil Method

### Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	199 °F	93.0 °C	ExxonMobil Method

### Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1300 psi	8.7 MPa	ASTM D882
Tensile Strength at Yield TD	1200 psi	8.2 MPa	ASTM D882
Tensile Strength at Break MD	6900 psi	47 MPa	ASTM D882
Tensile Strength at Break TD	4700 psi	33 MPa	ASTM D882
Elongation at Break MD	510 %	510 %	ASTM D882
Elongation at Break TD	820 %	820 %	ASTM D882
Secant Modulus MD - 1% Secant	19000 psi	130 MPa	ASTM D882
Secant Modulus TD - 1% Secant	21000 psi	150 MPa	ASTM D882
Dart Drop Impact	100 g	100 g	ASTM D1709A
Elmendorf Tear Strength MD	170 g	170 g	ASTM D1922
Elmendorf Tear Strength TD	580 g	580 g	ASTM D1922
Puncture Force	7 lbf	32 N	ExxonMobil Method
Puncture Energy	23 in-lb	2.6 J	ExxonMobil Method

### Optical Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	91	91	ASTM D2457
Haze	2.0 %	2.0 %	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

Film (0.8 mil / 20 micron) made from ExxonMobil™ C6LL 3218.32 resin on a 3.5 inch cast film line with a 8.25 inch melt curtain, 80°F (27°C) chill roll temperature at a 400 ft/min (122 m/min) take-off speed and a melt temperature of 530°F (277°C).

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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](http://www.exxonmobilchemical.com/ContactUs)

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