Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ C6LL 6836.67

C6 Linear Low Density Polyethylene

Product Description

ExxonMobil™ C6LL 6836.67 resin is a narrow molecular weight hexene copolymer designed for applications that require outstanding environmental stress crack resistance. This resin offers good processability with minimal warpage and outstanding toughness for cold temperature durability.

General

Availability [1]	▪ Latin America	▪ North America
Additive	▪ Thermal Stabilizer: Yes	
Applications	▪ Caps and Closures ▪ Cargo handling boxes	▪ Large Lids ▪ Large Part Housewares
Form(s)	▪ Pellets	
Revision Date	▪ 06/11/2020	

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.936	g/cm³	0.936	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	6.8	g/10 min	6.8	g/10 min	ASTM D1238
Peak Melting Temperature	259	°F	126	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	228	°F	109	°C	ExxonMobil Method

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield	2600	psi	18	MPa	ExxonMobil Method
Elongation at Break	760	%	760	%	ExxonMobil Method
Flexural Modulus					ExxonMobil Method
1% Secant : Procedure B	96000	psi	660	MPa	
2% Secant : Procedure B	82000	psi	570	MPa	
Environmental Stress-Crack Resistance					ExxonMobil Method
Condition B, 10% Igepal, F50	> 1000	hr	> 1000	hr	

Legal Statement

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

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

Processing Statement

All physical properties were measured on compression molded specimens.

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