Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ C6LL 18031.17

C6 Linear Low Density Polyethylene

Product Description

ExxonMobil™ C6LL 18031.17 resin is a narrow molecular weight hexene copolymer that offers excellent toughness, impact strength and environmental stress crack resistance. This single pellet offers a solution for applications that typically require a blend of LLDPE for easy processability and HDPE to retain desired physical properties.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ Thermal Stabilizer: Yes		
Applications	▪ Closures ▪ Commercial articles	▪ Housewares ▪ Kitchenwares	▪ Spouts
Form(s)	▪ Pellets		
Revision Date	▪ 10/13/2022		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.931	g/cm³	0.931	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	18	g/10 min	18	g/10 min	ASTM D1238

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	216	°F	102	°C	ASTM D1525
Peak Melting Temperature	260	°F	127	°C	ExxonMobil Method

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield	2200	psi	16	MPa	ExxonMobil Method
Elongation at Break	440	%	440	%	ASTM D638
Flexural Modulus					ASTM D790B
1% Secant	90000	psi	620	MPa	
2% Secant	77000	psi	530	MPa	
Environmental Stress-Crack Resistance					ASTM D1693B
10% Igepal, F50	750	hr	750	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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For additional technical, sales and order assistance: Contact Us

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