Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ C4LL 50026 Series Molding

C4 Linear Low Density Polyethylene

Product Description

ExxonMobil™ C4LL 50026 series are ethylene 1-butene copolymer resins. These high flow LLDPE grades offer a unique combination of excellent processability and outstanding product properties. Parts manufactured from ExxonMobil™ C4LL 50026 have good gloss and offer advantages in toughness, environmental stress crack resistance, stiffness and heat distortion resistance over comparable low density polyethylene items.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ ExxonMobil™ C4LL 50026.RQ: Thermal Stabilizer: Yes	▪ ExxonMobil™ C4LL 50026.XR: Thermal Stabilizer: Yes	
Applications	▪ Compounding (RQ version) ▪ Housewares	▪ Lids ▪ Thin Wall Articles	
Form(s)	▪ ExxonMobil™ C4LL 50026.XR: Pellets	▪ ExxonMobil™ C4LL 50026.RQ: Powder	
Revision Date	▪ 04/01/2017		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.926	g/cm³	0.926	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	50	g/10 min	50	g/10 min	ExxonMobil Method
Peak Melting Temperature	251	°F	122	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	195	°F	91	°C	ISO 306

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Stress at Yield	1500	psi	11	MPa	ISO 527-2/1A/50
Tensile Strain at Yield	20	%	20	%	ISO 527-2/1A/50
Tensile Strain at Break	> 100	%	> 100	%	ISO 527-2/1A/50
Flexural Modulus	42000	psi	290	MPa	ISO 178
Environmental Stress-Crack Resistance					ASTM D1693
10% Igepal	6	hr	6	hr	

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact Strength	21	ft·lb/in²	45	kJ/m²	ISO 180/1A

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

Molded properties were measured on 2 mm (78.7 mil) thick compression molded plaques prepared based on ASTM D 4703 Procedure C (177C, 15C/min): ESCR 2 mm plaques, notch condition B.

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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