ExxonMobil Signature Polymers

ExxonMobil™ EVA 2109FL

Ethylene Vinyl Acetate Copolymer

Product Description

ExxonMobil™ EVA 2109FL is a copolymer of ethylene and vinyl acetate. Processing temperatures above 270 °C (518 °F) may cause resin degradation. Machines should always be purged with LDPE or a suitable cleaning compound before shutdown.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: No
Applications	▪ Closures and Dispensers ▪ Compounding	▪ Food Packaging ▪ Injection Molding	▪ Lamination Film
Revision Date	▪ 01/01/2017		

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)	2.1	g/10 min	2.1	g/10 min	ASTM D1238
Vinyl Acetate Content	9.4	wt%	9.4	wt%	ExxonMobil Method
Peak Melting Temperature	210	°F	99	°C	ExxonMobil Method

Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	172	°F	78	°C	ASTM D1525

Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Modulus (0.20 in/min (5.0 mm/min))	16000	psi	110	MPa	ASTM D638
Elongation at Break (20 in/min (500 mm/min))	> 100	%	> 100	%	ASTM D638
Durometer Hardness (Shore A, 15 sec)	94		94		ASTM D2240

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Break MD	4300	psi	30	MPa	ASTM D882
Tensile Strength at Break TD	3700	psi	26	MPa	ASTM D882
Elongation at Break MD	510	%	510	%	ASTM D882
Elongation at Break TD	650	%	650	%	ASTM D882
Secant Modulus MD - 1% Secant	14000	psi	97	MPa	ASTM D882
Secant Modulus TD - 1% Secant	15000	psi	100	MPa	ASTM D882
Dart Drop Impact	370	g	370	g	ASTM D1709A
Elmendorf Tear Strength MD	110	g	110	g	ASTM D1922
Elmendorf Tear Strength TD	170	g	170	g	ASTM D1922

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 properties were measured on a 50µm (1.97 mil) thick film extruded on a conventional LDPE extruder (screw diameter 60mm (2.36 in), rotating die diameter : 200mm (7.87 in), die gap : 1 mm (39.4mil), BUR 2.5:1, die temperature 180°C (356°F)). Molded properties were measured on 2 mm (78.7 mil) thick compression molded plaques prepared based on ASTM D 4703 Procedure C (tensile ASTM D 638 : Type IV dumbbell, hardness ASTM D 2240 : 3 plied up disks).

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.

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For additional technical, sales and order assistance: Contact Us

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