Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ EVA 05004 Series

Ethylene Vinyl Acetate Copolymer

Product Description

ExxonMobil™ EVA 05004 series are LEVA LDPE grades, offering good mechanical and sealing properties. Several additive combinations are available according to the required surface properties.

General

Availability [1]	▪ Africa & Middle East	▪ Europe	
Additive	▪ ExxonMobil™ EVA 05004.BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes		
Applications	▪ Agricultural Film ▪ Co-Extrusion Films ▪ Foams	▪ Form Fill And Seal Packaging ▪ Freezer Film ▪ Lamination Film	▪ Poultry Bag ▪ Rice Bags
Revision Date	▪ 07/26/2022		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.926	g/cm³	0.926	g/cm³	ASTM D1505
Melt Index [2] (190°C/2.16 kg)	0.50	g/10 min	0.50	g/10 min	ASTM D1238
Vinyl Acetate Content	4.2	wt%	4.2	wt%	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Peak Melting Temperature	217	°F	103	°C	ASTM D3418

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Break MD	4000	psi	28	MPa	ExxonMobil Method
Tensile Strength at Break TD	3200	psi	22	MPa	ExxonMobil Method
Elongation at Break MD	210	%	210	%	ExxonMobil Method
Elongation at Break TD	520	%	520	%	ExxonMobil Method
Secant Modulus MD - 1% Secant	24200	psi	167	MPa	ExxonMobil Method
Secant Modulus TD - 1% Secant	28500	psi	197	MPa	ExxonMobil Method
Dart Drop Impact (Method A)	230	g	230	g	ExxonMobil Method
Elmendorf Tear Strength MD	130	g	130	g	ASTM D1922
Elmendorf Tear Strength TD	100	g	100	g	ASTM D1922

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	43		43		ExxonMobil Method
Haze	15	%	15	%	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

The test specimen were prepared on ExxonMobil™ EVA 05004.BW, 50µm (1.97mil) thick film, using a 200 mm (7.9 in) die, die gap of 1.0 mm (39.4 mil), Blow-Up Ratio2.5 and temperature profile of 180 - 190°C (356- 374°F).

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

Product Datasheet

ExxonMobil™ EVA 05004 Series
Ethylene Vinyl Acetate Copolymer

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.

[2] Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.

For additional technical, sales and order assistance: Contact Us

©2025 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com