

ExxonMobil™ EVA 14018FL

Ethylene Vinyl Acetate Copolymer

Product Description

ExxonMobil™ EVA 14018FL is primarily designed for high speed/low coating weight extrusion coating and is a good coextrusion partner with other polymers. ExxonMobil™ EVA 14018FL is an excellent sealing material with a very low seal initiation temperature and high clarity. Processing Conditions Excellent results are obtained in extrusion coating at 225 °C (437°F) temperature range. Processing temperatures above 240°C (464°F) may cause resin degradation. ExxonMobil™ EVA 14018FL should be fed into the extruder after LDPE of a similar or higher melt index. 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: Yes
Applications	▪ Adhesive Lamination ▪ Barrier Food Packaging ▪ Coextrusion Coating ▪ Compounding ▪ Document Plastification ▪ Extrusion Coating	▪ Extrusion Lamination ▪ Flexible Packaging ▪ High Frequency Sealing ▪ Industrial Packaging ▪ Injection Molding ▪ Masterbatch Base Resin	▪ Non-Woven Coating ▪ PVC Replacement ▪ Thermal Lamination ▪ Wire and Cable Compounds
Revision Date	▪ 01/01/2018		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.938 g/cm ³	0.938 g/cm ³	ASTM D1505
Melt Index ² (190°C/2.16 kg)	14 g/10 min	14 g/10 min	ASTM D1238
Vinyl Acetate Content	18.0 wt%	18.0 wt%	ExxonMobil Method
Peak Melting Temperature	181 °F	83 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	124 °F	51 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Modulus (0.20 in/min (5.0 mm/min))	5300 psi	36 MPa	ASTM D638
Tensile Strength at Break 20 in/min (500 mm/min)	1500 psi	10 MPa	ASTM D638
Elongation at Break (20 in/min (500 mm/min))	840 %	840 %	ASTM D638
Durometer Hardness			ASTM D2240
Shore A, 15 sec	89	89	
Shore D, 15 sec	31	31	

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 D4703 Procedure C (Tensile ASTM D638 : Type IV dumbbell, Hardness ASTM D2240 : 3 plied up disks) and 4 mm (157 mil) for VICAT.

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 D1238.

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