Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ EVA 05008

Ethylene Vinyl Acetate Copolymer

Product Description

ExxonMobil™ EVA 05008 resin is a copolymer of ethylene and vinyl acetate.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Additive	▪ Antiblock: No	▪ Slip: 150 ppm	▪ Thermal Stabilizer: Yes
Applications	▪ Stretch Hood		
Form(s)	▪ Pellets		
Revision Date	▪ 06/17/2020		

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.928	g/cm³	0.928	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.50	g/10 min	0.50	g/10 min	ASTM D1238
Vinyl Acetate Content	7.5	wt%	7.5	wt%	ExxonMobil Method
Peak Melting Temperature	212	°F	100	°C	ExxonMobil Method

Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	176	°F	80.0	°C	ExxonMobil Method

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1400	psi	9.8	MPa	ASTM D882
Tensile Strength at Yield TD	940	psi	6.5	MPa	ASTM D882
Tensile Strength at Break MD	4900	psi	34	MPa	ASTM D882
Tensile Strength at Break TD	4300	psi	29	MPa	ASTM D882
Elongation at Break MD	200	%	200	%	ASTM D882
Elongation at Break TD	620	%	620	%	ASTM D882
Secant Modulus MD - 1% Secant	16000	psi	110	MPa	ASTM D882
Secant Modulus TD - 1% Secant	19000	psi	130	MPa	ASTM D882
Dart Drop Impact	360	g	360	g	ASTM D1709A
Elmendorf Tear Strength MD	190	g	190	g	ASTM D1922
Elmendorf Tear Strength TD	60	g	60	g	ASTM D1922
Puncture Force	15	lbf	67	N	ExxonMobil Method
Puncture Energy	25	in·lb	2.8	J	ExxonMobil Method

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	52		52		ASTM D2457
Haze	9.4	%	9.4	%	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

Film (1.5 mil/38.1 micron) made from ExxonMobil™ EVA 05008 resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 325-345°F (163-174°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

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

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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.

For additional technical, sales and order assistance: Contact Us

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