ExxonMobil Signature Polymers

ExxonMobil™ EVA 1619 Series

(Legacy name: Escorene™ Ultra LD 720 Series)

Ethylene Vinyl Acetate Copolymer

Product Description

ExxonMobil™ EVA 1619 resins are high vinyl acetate copolymer specialty film resins designed for applications requiring outstanding heat sealability, along with excellent strength properties and toughness. These resins are also used in specialized molding applications.

General

Availability [1]	▪ Asia Pacific	▪ Latin America	▪ North America
Additive	▪ EVA 1619.NM: Antiblock: No; Slip: No; Thermal Stabilizer: Yes ▪ EVA 1619.AW: Antiblock: 10000 ppm; Slip: 7050 ppm; Thermal Stabilizer: Yes		
Applications	▪ Heat Seal Layer	▪ Injection Molding	▪ Shoe Soles
Revision Date	▪ 11/29/2018		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.947	g/cm³	0.947	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	1.6	g/10 min	1.6	g/10 min	ASTM D1238
Vinyl Acetate Content	18.5	wt%	18.5	wt%	ExxonMobil Method
Peak Melting Temperature	187	°F	86	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	144	°F	62	°C	ASTM D1525

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Break MD	3900	psi	27	MPa	ASTM D882
Tensile Strength at Break TD	4000	psi	28	MPa	ASTM D882
Elongation at Break MD	210	%	210	%	ASTM D882
Elongation at Break TD	640	%	640	%	ASTM D882
Secant Modulus MD - 1% Secant	8900	psi	61	MPa	ASTM D882
Secant Modulus TD - 1% Secant	9800	psi	68	MPa	ASTM D882
Dart Drop Impact	400	g	400	g	ASTM D1709A
Elmendorf Tear Strength MD	50	g	50	g	ASTM D1922
Elmendorf Tear Strength TD	80	g	80	g	ASTM D1922
Puncture Force	6	lbf	25	N	ExxonMobil Method
Puncture Energy	6.0	in·lb	0.68	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	43		43		ASTM D2457
Haze	> 30	%	> 30	%	ASTM D1003

Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Processing Statement

Film (1.5 mil / 38 micron) made from EVA 1619 on a 2.5 inch blown film line with a 6 inch die and 30 mil die gap at a 2.5:1 blow-up ratio and melt temperature of 320-340°F (160-171°C).

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: www.exxonmobilchemical.com/ContactUs

exxonmobilchemical.com