

Escorene™ Ultra FL 00309

Ethylene Vinyl Acetate Copolymer Resin

Product Description

FL 00309 is a copolymer of ethylene and vinyl acetate. Processing Conditions Processing temperatures above 270 °C (518 °F) may cause resin degradation.

General

Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: No
Applications	▪ Cast Film ▪ Co-Extrusion Films	▪ Food packaging ▪ Injection Molding	▪ Lamination Film

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.929 g/cm ³	0.929 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	3.0 g/10 min	3.0 g/10 min	ASTM D1238
Vinyl Acetate Content	9.4 wt%	9.4 wt%	ExxonMobil Method
Peak Melting Temperature	205 °F	96 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	166 °F	74 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Modulus	11000 psi	78 MPa	ISO 527-2/1
Tensile Strain at Break	> 100 %	> 100 %	ISO 527-2/1A/100
Shore Hardness (Shore A, 15 sec)	93	93	ISO 868

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Break MD	3600 psi	25 MPa	ASTM D882
Tensile Strength at Break TD	3500 psi	24 MPa	ASTM D882
Elongation at Break MD	500 %	500 %	ASTM D882
Elongation at Break TD	600 %	600 %	ASTM D882
Secant Modulus MD - 1% Secant	15000 psi	100 MPa	ASTM D882
Secant Modulus TD - 1% Secant	16000 psi	110 MPa	ASTM D882
Dart Drop Impact	360 g	360 g	ASTM D1709A
Elmendorf Tear Strength MD	80 g	80 g	ASTM D1922
Elmendorf Tear Strength TD	130 g	130 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 50 µm (1.97 mil) film extruded on a conventional LDPE extruder. (Extruder screw diameter : 60 mm (2.36 in), rotating die diameter : 200 mm (7.87 in), die gap : 1 mm (39.4 mil), BUR : 2:1, die temperature : 170°C, 338°F) The molded properties were measured on 4 mm (157.5 mil) thick injection molded specimen based on ISO 1872-2.

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.