

Escorene™ Ultra FL 00212

Ethylene Vinyl Acetate Copolymer Resin

Product Description

FL 00212 is a copolymer of ethylene and vinyl acetate. Processing Conditions Processing temperatures above 260 °C (500 °F) may cause resin degradation. Machines should always be purged with LDPE or a suitable cleaning compound before shutdown.

General

Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Cast Film ▪ Co-Extrusion Films	▪ Compounding ▪ Freezer Film	▪ Injection Molding ▪ Stretch Film

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.934 g/cm ³	0.934 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	2.5 g/10 min	2.5 g/10 min	ASTM D1238
Vinyl Acetate Content	12.0 wt%	12.0 wt%	ExxonMobil Method
Peak Melting Temperature	201 °F	94 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	160 °F	71 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Modulus (0.20 in/min (5.0 mm/min))	13000 psi	90 MPa	ASTM D638
Elongation at Break (20 in/min (500 mm/min))	> 100 %	> 100 %	ASTM D638
Durometer Hardness (Shore A, 15 sec)	94	94	ASTM D2240

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Break MD	4400 psi	30 MPa	ASTM D882
Tensile Strength at Break TD	4100 psi	28 MPa	ASTM D882
Elongation at Break MD	530 %	530 %	ASTM D882
Elongation at Break TD	660 %	660 %	ASTM D882
Secant Modulus MD - 1% Secant	12000 psi	80 MPa	ASTM D882
Secant Modulus TD - 1% Secant	12000 psi	80 MPa	ASTM D882
Dart Drop Impact	480 g	480 g	ASTM D1709A
Elmendorf Tear Strength MD	110 g	110 g	ASTM D1922
Elmendorf Tear Strength TD	160 g	160 g	ASTM D1922

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 properties were measured on a 50µm (1.97 mil) thick film extruded on a conventional LDPE extruder (screw diameter 60mm (2.36 in), rotating die diameter : 200mm (7.87 in), die gap : 1 mm (39.4mil), BUR 2.5:1, die temperature 180°C (356°F)). Molded properties were measured on 2 mm (78.7 mil) thick compression molded plaques prepared based on ASTM D 4703 Procedure C (tensile ASTM D 638 : Type IV dumbbell, hardness ASTM D 2240 : 3 plied up disks).