

## Product Datasheet



# 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

|                           |                        |                |                           |
|---------------------------|------------------------|----------------|---------------------------|
| Availability <sup>1</sup> | ▪ Africa & Middle East | ▪ Asia Pacific | ▪ Europe                  |
| Additive                  | ▪ Antiblock: No        | ▪ Slip: No     | ▪ Thermal Stabilizer: Yes |
| Applications              | ▪ Cast Film            | ▪ Compounding  | ▪ Injection Molding       |
|                           | ▪ Co-Extrusion Films   | ▪ Freezer Film | ▪ Stretch Film            |
| Revision Date             | ▪ 01/01/2017           |                |                           |

| Resin Properties           | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density                    | 0.934 g/cm <sup>3</sup> | 0.934 g/cm <sup>3</sup> | ASTM D1505        |
| 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   | 202 °F                  | 94 °C                   | ExxonMobil Method |

| Thermal                     | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|---------------|
| Vicat Softening Temperature | 159 °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))   | 12000 psi               | 85 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  | 4000 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 | 11000 psi               | 78 MPa             | ASTM D882     |
| Secant Modulus TD - 1% Secant | 12000 psi               | 83 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

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 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).

### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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**ExxonMobil**

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For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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