

# Escorene™ Ultra UL 04331EL

## Ethylene Vinyl Acetate Copolymer Resin

### Product Description

UL 04331EL is a HEVA grade, especially designed for photovoltaic cells and encapsulation applications, requiring a good balance of adhesion and COF. It offers excellent light transmission characteristics. UL 04331EL contains an additive package to improve pellet flowability and handling.

### General

Availability <sup>1</sup>	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Applications	▪ Encapsulation	▪ Hot Melt Adhesives	▪ Photovoltaic Cells
Revision Date	▪ 01/01/2017		

### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.953 g/cm <sup>3</sup>	0.953 g/cm <sup>3</sup>	ASTM D1505
Melt Index <sup>2</sup> (190°C/2.16 kg)	43 g/10 min	43 g/10 min	ASTM D1238
Vinyl Acetate Content	31.4 wt%	31.4 wt%	ExxonMobil Method
Peak Melting Temperature	146 °F	63 °C	ExxonMobil Method

### Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	92 °F	34 °C	ASTM D1525

### Molded Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Modulus (0.20 in/min (5.0 mm/min))	1200 psi	8.6 MPa	ASTM D638
Tensile Strength at Break 20 in/min (500 mm/min)	860 psi	5.9 MPa	ASTM D638
Elongation at Break (20 in/min (500 mm/min))	950 %	950 %	ASTM D638
Durometer Hardness			ASTM D2240
Shore A, 15 sec	69	69	
Shore D, 15 sec	14	14	

### 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

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.

<sup>2</sup> Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.

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

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