

# Optema™ TC 114 Cast

## Ethylene Methyl Acrylate Copolymer Resin

### Product Description

Optema TC 114 is an ethylene methyl acrylate copolymer specifically formulated to offer extrusion and property performance for blown and cast film applications. It produces a soft, elastic film with good handling characteristics without additional additives. Optema TC 114 can produce film under 1.0 mil thickness.

### General

Availability <sup>1</sup>	▪ Latin America	▪ North America	
Additive	▪ Antiblock: 14000 ppm	▪ Slip: 3000 ppm	▪ Thermal Stabilizer: Yes
Applications	▪ Disposable Gloves	▪ Hospital Drapes	▪ Upholstery Film
Revision Date	▪ 01/01/2017		

### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.947 g/cm <sup>3</sup>	0.947 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	3.2 g/10 min	3.2 g/10 min	ASTM D1238
Methyl Acrylate Content	18.0 wt%	18.0 wt%	ExxonMobil Method
Peak Melting Temperature	186 °F	86 °C	ExxonMobil Method

### Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	134 °F	57 °C	ASTM D1525

### Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Break MD	3200 psi	22 MPa	ASTM D882
Tensile Strength at Break TD	2500 psi	17 MPa	ASTM D882
Elongation at Break MD	240 %	240 %	ASTM D882
Elongation at Break TD	770 %	770 %	ASTM D882
Secant Modulus MD	9400 psi	65 MPa	ASTM D882
Secant Modulus TD	9100 psi	63 MPa	ASTM D882
Dart Drop Impact	180 g	180 g	ASTM D1709A
Elmendorf Tear Strength MD	60 g	60 g	ASTM D1922
Elmendorf Tear Strength TD	340 g	340 g	ASTM D1922

### Optical Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	43	43	ASTM D2457
Haze	19 %	19 %	ASTM D1003

### 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 (2 mil / 50.8 micron) made from Optema TC 114 on a 3.5 inch cast film line with a 5 inch melt curtain, 80°F (27°C) chill roll temperature at a 250 ft/min take-off speed and melt temperature of 390-450°F (199-232°C).

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

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