

# 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	03/01/2010		

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>	ExxonMobil Method
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	185 °F	85 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	135 °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	2300 psi	16 MPa	ASTM D882
Elongation at Break MD	350 %	350 %	ASTM D882
Elongation at Break TD	790 %	790 %	ASTM D882
Secant Modulus MD - 1% Secant	8100 psi	56 MPa	ASTM D882
Secant Modulus TD - 1% Secant	8200 psi	56 MPa	ASTM D882
Dart Drop Impact	180 g	180 g	ASTM D1709A
Elmendorf Tear Strength MD	90 g	90 g	ASTM D1922
Elmendorf Tear Strength TD	350 g	350 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 (2 mil / 50.8 micron) made from 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 411-430°F (211-221°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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