

Optema™ TC 114 Blown

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 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 ¹	▪ 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 ³	0.947 g/cm ³	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	2800 psi	19 MPa	ASTM D882
Tensile Strength at Break TD	2900 psi	20 MPa	ASTM D882
Elongation at Break MD	360 %	360 %	ASTM D882
Elongation at Break TD	670 %	670 %	ASTM D882
Secant Modulus MD	6200 psi	43 MPa	ASTM D882
Secant Modulus TD	6600 psi	45 MPa	ASTM D882
Dart Drop Impact	450 g	450 g	ASTM D1709A
Elmendorf Tear Strength MD	50 g	50 g	ASTM D1922
Elmendorf Tear Strength TD	290 g	290 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 2.5 inch blown film line having a 6 inch die with a 30 mil die gap at a 2.5:1 blow-up ratio and melt temperature of 290-310°F (143-154°C).

Notes

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

¹ 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

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