

ExxonMobil Optema® TC-114 Cast Ethylene Methyl Acrylate

Category : Polymer , Film , Thermoplastic , Ethylene Methyl Acrylate , Ethylene-Methyl Acrylate Copolymer, Film Grade

Material Notes:

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. **Availability:** Latin America, North America and South America **Additive:** Anitblock: 14000 ppmSlip: 3000 ppmThermal Stabilizer: Yes**Applications:** Disposable GlovesHospital DrapesUpholstery FilmData provided by the manufacturer, Exxon Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Optema-TC-114-Cast-Ethylene-Methyl-Acrylate.php

Physical Properties	Metric	English	Comments
Density	0.947 g/cc	0.0342 lb/in ³	Exxon Method
Methyl Acrylate Content	18 %	18 %	Exxon Method
Thickness	31.8 microns	1.25 mil	
Melt Flow	3.20 g/10 min @Load 2.16 kg, Temperature 190 °C	3.20 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Antiblock Level	1400 ppm	1400 ppm	
Slip Level	3000 ppm	3000 ppm	[ppm]

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	350 %	350 %	ASTM D882
Film Elongation at Break, TD	790 %	790 %	ASTM D882
Elmendorf Tear Strength MD	90 g	90 g	ASTM D1922
Elmendorf Tear Strength TD	350 g	350 g	ASTM D1922
Dart Drop Test	180 g	0.397 lb	ASTM D1709A
Film Tensile Strength at Break, MD	22.1 MPa	3200 psi	ASTM D882
Film Tensile Strength at Break, TD	15.9 MPa	2300 psi	ASTM D882
1% Secant Modulus, MD	55.8 MPa	8100 psi	ASTM D882
1% Secant Modulus, TD	56.5 MPa	8200 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	57.2 °C	135 °F	ASTM D882

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