

ExxonMobil Optema® TC-110 Blown Ethylene Methyl Acrylate

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

Material Notes:

Product Description: Optema TC 110 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. It can produce film under 1.0 mil thickness.**Availability:** Latin America, North America and South America **Additive:** Antiblock: NoSlip: No Thermal Stabilizer: Yes**Applications:** Disposable GlovesHospital DrapesUpholstery Film**Data provided by the manufacturer, Exxon Chemical.**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Optema-TC-110-Blown-Ethylene-Methyl-Acrylate.php

Physical Properties	Metric	English	Comments
Density	0.942 g/cc	0.0340 lb/in ³	Exxon Method
Methyl Acrylate Content	21.5 %	21.5 %	Exxon Method
Thickness	31.8 microns	1.25 mil	
Melt Flow	2.00 g/10 min @Load 2.16 kg, Temperature 190 °C	2.00 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	370 %	370 %	ASTM D882
Film Elongation at Break, TD	650 %	650 %	ASTM D882
Elmendorf Tear Strength MD	30 g	30 g	ASTM D1922
Elmendorf Tear Strength TD	320 g	320 g	ASTM D1922
Dart Drop Test	430 g	0.948 lb	ASTM D1709A
Film Tensile Strength at Break, MD	20.0 MPa	2900 psi	ASTM D882
Film Tensile Strength at Break, TD	20.7 MPa	3000 psi	ASTM D882
1% Secant Modulus, MD	42.7 MPa	6200 psi	ASTM D882
1% Secant Modulus, TD	40.0 MPa	5800 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	176 °C	349 °F	Peak Temperature; Exxon Method
Vicat Softening Point	127 °C	261 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	16 %	16 %	ASTM D1003
Gloss	34 %	34 %	45°; ASTM D2457

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