

ExxonMobil Optema® TC-110 Molding Ethylene Methyl Acrylate

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

Material Notes:

Product Description: Optema TC 110 is an ethylene methyl acrylate copolymer. TC 110 can be used for injection molding applications. It can be used in alloys, blends or compounds to increase impact strength or to lower the modulus. TC 110 can be injection molded and extruded.

Availability: Latin America, North America and South America **Additive:** Thermal Stabilizer: Yes **Applications:** Compatibilizer Engineering thermoplastic impact modifier Foams Injection Molding Soft, molded parts Data provided by the manufacturer, Exxon Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Optema-TC-110-Molding-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
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	Exxon Method

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86 @Time 15.0 sec	86 @Time 0.00417 hour	ASTM D2240
Hardness, Shore D	26 @Time 15.0 sec	26 @Time 0.00417 hour	ASTM D2240
Tensile Strength at Break	8.27 MPa	1200 psi	ASTM D638
Elongation at Break	>= 800 %	>= 800 %	ASTM D638
Flexural Modulus, 1% Secant	37.2 MPa	5400 psi	ASTM D790
Dart Drop, Total Energy	17.6 J @Temperature 22.8 °C	13.0 ft-lb @Temperature 73.0 °F	ASTM D3763
	32.5 J @Temperature -40.0 °C	24.0 ft-lb @Temperature -40.0 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
Melting Point	77.8 °C	172 °F	Exxon Method
Vicat Softening Point	51.1 °C	124 °F	Peak Melting Temperature; ASTM D1525

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