

Optema™ TC 110 Molding

Ethylene Methyl Acrylate Copolymer Resin

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.

General

| | | |
|---------------------------|-----------------------------------------------------------------|--------------------------------------------------------|
| Availability ¹ | ▪ Latin America | ▪ North America |
| Additive | ▪ Thermal Stabilizer: Yes | |
| Applications | ▪ Compatibilizer ▪ Engineering thermoplastic impact modifier | ▪ Foams ▪ Injection Molding ▪ Soft, molded parts |
| Revision Date | ▪ 03/01/2010 | |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.942 g/cm ³ | 0.942 g/cm ³ | ExxonMobil Method |
| Melt Index (190°C/2.16 kg) | 2.0 g/10 min | 2.0 g/10 min | ASTM D1238 |
| Methyl Acrylate Content | 21.5 wt% | 21.5 wt% | ExxonMobil Method |
| Peak Melting Temperature | 172 °F | 78 °C | ExxonMobil Method |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|---------------|
| Vicat Softening Temperature | 124 °F | 51 °C | ASTM D1525 |

| Molded Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Break | 1200 psi | 8.0 MPa | ASTM D638 |
| Elongation at Break | > 800 % | > 800 % | ASTM D638 |
| Flexural Modulus - 1% Secant | 5400 psi | 37 MPa | ASTM D790 |
| Durometer Hardness | | | ASTM D2240 |
| Shore A, 15 sec | 86 | 86 | |
| Shore D, 15 sec | 26 | 26 | |

| Impact | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------|-------------------------|--------------------|---------------|
| Instrumented Dart Impact | | | ASTM D3763 |
| -40°F (-40°C) | 24 ft-lb | 33 J | |
| 73°F (23°C) | 13 ft-lb | 18 J | |

Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Processing Statement

The test specimens were prepared using ASTM D4703, Procedure 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.

HongRong Engineering Plastics Co.,Ltd.
Head Office Tel. +85-2-6957-5415
Research Center Tel.+188 1699 6168

Optema™ TC 110 Molding
Ethylene Methyl Acrylate Copolymer Resin

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

©2015 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Chemical" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

HongRong Engineering Plastics Co.,Ltd.
Head Office Tel. +85-2-6957-5415
Research Center Tel.+188 1699 6168