

# Exxtra™ Soft EMA6022 Molding

(Legacy name: Optema™ TC 121 Molding)

## Ethylene Methyl Acrylate Copolymer

### Product Description

Exxtra™ Soft EMA6022 is an ethylene methyl acrylate copolymer that can be used as an impact modifier or compatibilizer in polymer compounds. It produces a soft, elastic film with good handling characteristics without additional additives. Exxtra™ Soft EMA6022 has been processed on typical LDPE compounding equipment at temperatures up to 625°F.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Antiblock: No</li> <li>Slip: No</li> <li>Thermal Stabilizer: Yes</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Compatibilizer</li> <li>Engineering thermoplastic impact modifier</li> <li>Hot Melt Adhesives</li> <li>Injection Molding</li> <li>Masterbatch Base Resin</li> <li>Soft, molded parts</li> <li>Sound Deadening Foam</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>01/22/2019</li> </ul>

### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.943 g/cm <sup>3</sup>	0.943 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	6.0 g/10 min	6.0 g/10 min	ASTM D1238
Methyl Acrylate Content	21.5 wt%	21.5 wt%	ExxonMobil Method
Peak Melting Temperature	174 °F	79 °C	ExxonMobil Method

### Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	120 °F	49 °C	ASTM D1525

### Molded Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Break	990 psi	6.8 MPa	ASTM D638
Elongation at Break	> 500 %	> 500 %	ASTM D638
Flexural Modulus - 1% Secant	5100 psi	35 MPa	ASTM D790
Durometer Hardness			ASTM D2240
Shore A, 15 sec	84	84	
Shore D, 15 sec	25	25	

### Impact

	Typical Value (English)	Typical Value (SI)	Test Based On
Instrumented Dart Impact			ASTM D3763
-40°F (-40°C)	17 ft·lb	23 J	
73°F (23°C)	14 ft·lb	18 J	

### 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

The test specimens were prepared using ASTM D4703, Procedure C.

### Notes

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

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

Exxtra™ Soft EMA6022 Molding  
Ethylene Methyl Acrylate Copolymer

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

©2025 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 Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

[exxonmobilchemical.com](http://exxonmobilchemical.com)