

Optema™ TC 111 Molding

Ethylene Methyl Acrylate Copolymer Resin

Product Description

Optema™ TC 111 is an ethylene methyl acrylate copolymer. Optema™ TC 111 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. Optema™ TC 111 can be injection molded and extruded.

General

Availability ¹	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Compatibilizer ▪ Engineering thermoplastic impact modifier	▪ Foams ▪ Injection Molding	▪ Soft, molded parts
Revision Date	▪ 01/22/2019		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.943 g/cm ³	0.943 g/cm ³	ASTM D1505
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	176 °F	80 °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	1300 psi	9.0 MPa	ASTM D638
Elongation at Break	> 600 %	> 600 %	ASTM D638
Flexural Modulus - 1% Secant	5700 psi	39 MPa	ASTM D790
Durometer Hardness			ASTM D2240
Shore A, 15 sec	80	80	
Shore D, 15 sec	27	27	

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)	16 ft·lb	21 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.

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.

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

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