

Optema™ TC 121 Molding

Ethylene Methyl Acrylate Copolymer Resin

Product Description

Optema™ TC 121 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. Optema™ TC 121 has been processed on typical LDPE compounding equipment at temperatures up to 625°F.

General					
Availability ¹	 Latin America 		 North America 		
Additive	 Antiblock: No 		Slip: No	 Thermal Stabilizer: Yes 	
Applications	 Compatibilizer Engineering thermop impact modifier Hot Melt Adhesives 	olastic	Injection MoldingMasterbatch Base ResinSoft, molded parts	 Sound Deadening Foam 	
Revision Date	• 01/22/2019				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.943	g/cm³	0.943	g/cm³	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		
mpact	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.

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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