

Product Datasheet



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 thermoplastic impact modifier - Hot Melt Adhesives - Injection Molding - Masterbatch Base Resin - Soft, 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/cm ³	0.943 g/cm ³	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.

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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ExxonMobil**Optema™ TC 121 Molding**
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