Ex on Mobil

Optema™ TC 221 Molding Ethylene Methyl Acrylate Copolymer Resin

Product Description

Optema[™] TC 221 is an ethylene methyl acrylate copolymer that can be used in specialty bonding applications and as a toughener for engineering polymers. It can be processed at temperatures as low as 200°F (93°C) and as high as 600°F (315°C).

General					
Availability ¹	 Latin America 		 North America 		
Additive	 Antiblock: No 		 Slip: No 	Thermal Stabilizer: Yes	
Applications	 Compatibilizer Engineering Polymer Toughener 		Low Temperature Sealant CompoundsMasterbatch Base Resin		
Revision Date	• 01/22/2019				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.944	g/cm ³	0.944	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	5.0	g/10 min	5.0	g/10 min	ASTM D1238
Methyl Acrylate Content	24.0	wt%	24.0	wt%	ExxonMobil Method
Peak Melting Temperature	163	°F	73	°C	ExxonMobil Method
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	113	°F	45	°C	ASTM D1525
Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Break	970	psi	6.7	MPa	ASTM D638
Elongation at Break	> 600	%	> 600	%	ASTM D638
Flexural Modulus - 1% Secant	3900	psi	27	MPa	ASTM D790
Durometer Hardness					ASTM D2240
Shore A, 15 sec	82		82		
Shore D, 15 sec	24		24		
Impact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Instrumented Dart Impact -40°F (-40°C) 73°F (23°C)		ft·lb ft·lb	23 18		ASTM D3763

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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