

Optema™ TC 110 Molding

Ethylene Methyl Acrylate Copolymer Resin

Product Description

OPTEMA TC 110 is an ethylene methyl acrylate copolymer. TC 110 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. TC 110 can be injection molded and extruded.

General

Additive	▪ Thermal Stabilizer: Yes		
Applications	▪ Compatibilizer ▪ Engineering thermoplastic impact modifier	▪ Foams ▪ Injection Molding	▪ Soft, molded parts

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.942 g/cm ³	0.942 g/cm ³	ExxonMobil Method
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	172 °F	78 °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	1200 psi	8.0 MPa	ASTM D638
Elongation at Break	> 800 %	> 800 %	ASTM D638
Flexural Modulus - 1% Secant	5400 psi	37 MPa	ASTM D790
Durometer Hardness			ASTM D2240
Shore A, 15 sec	86	86	
Shore D, 15 sec	26	26	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Instrumented Dart Impact			ASTM D3763
-40°F (-40°C)	24 ft·lb	33 J	
73°F (23°C)	13 ft·lb	18 J	

