

Optema™ TC 220 Molding

Ethylene Methyl Acrylate Copolymer Resin

Product Description

OPTEMA TC 220 is an ethylene methyl acrylate copolymer, which 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

Additive	▪ Thermal Stabilizer: Yes		
Applications	▪ Compatibilizer ▪ Engineering Polymer Toughener	▪ Low Temperature Sealant Compounds ▪ Masterbatch Base Resin	

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.945 g/cm ³	0.945 g/cm ³	ExxonMobil Method
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	162 °F	72 °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	850 psi	5.9 MPa	ASTM D638
Elongation at Break	> 800 %	> 800 %	ASTM D638
Flexural Modulus - 1% Secant	3600 psi	25 MPa	ASTM D790
Durometer Hardness			ASTM D2240
Shore A, 15 sec	76	76	
Shore D, 15 sec	24	24	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Instrumented Dart Impact			ASTM D3763
-40°F (-40°C)	15 ft·lb	20 J	
73°F (23°C)	11 ft·lb	15 J	

