

Optema™ TC 120 Molding

Ethylene Methyl Acrylate Copolymer Resin

Product Description

OPTEMA TC 120 is an ethylene methyl acrylate copolymer, which can be used as an impact modifier or compatibilizer in polymer compounds. TC 120 has been processed on typical LDPE compounding equipment at temperatures up to 625°F.

General

Additive	▪ Thermal Stabilizer: Yes		
Applications	▪ Compatibilizer ▪ Engineering thermoplastic impact modifier ▪ Hot Melt Adhesives	▪ Injection Molding ▪ Masterbatch Base Resin ▪ Soft, molded parts	▪ Sound Deadening Foam

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.943 g/cm ³	0.943 g/cm ³	ExxonMobil Method
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	171 °F	77 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	118 °F	48 °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	4800 psi	33 MPa	ASTM D790
Durometer Hardness			ASTM D2240
Shore A, 15 sec	75	75	
Shore D, 15 sec	28	28	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Instrumented Dart Impact			ASTM D3763
-40°F (-40°C)	21 ft·lb	28 J	
73°F (23°C)	13 ft·lb	18 J	

