

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

| | |
|---------------------------|--|
| Availability ¹ | <ul style="list-style-type: none"> Latin America North America |
| Additive | <ul style="list-style-type: none"> Thermal Stabilizer: Yes |
| Applications | <ul style="list-style-type: none"> Compatibilizer Engineering Polymer Toughener Low Temperature Sealant Compounds Masterbatch Base Resin |
| Revision Date | <ul style="list-style-type: none"> 03/01/2010 |

| 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 | |

Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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.

HongRong Engineering Plastics Co.,Ltd.
Head Office Tel. +85-2-6957-5415
Research Center Tel.+188 1699 6168

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HongRong Engineering Plastics Co.,Ltd.
Head Office Tel. +85-2-6957-5415
Research Center Tel.+188 1699 6168