

Tritan™ MX810

Copolyester
Eastman Chemical Company

Message:

Eastman Tritan™ MX810 is an amorphous copolyester with excellent appearance and clarity. Its most outstanding features are excellent toughness, hydrolytic stability, and heat and chemical resistance. This new generation copolyester can also be molded into various applications without incorporating high levels of residual stress. Eastman Tritan™ Copolyester MX810 has been tested for FDA/ISO 10993 and USP Class VI Biological Evaluation testing after Gamma and ETO sterilization.

| General Information | | | |
|-----------------------------------|---------------------------------|-------------------|-------------|
| Features | Amorphous | | |
| | Ethylene Oxide Sterilizable | | |
| | Fast Molding Cycle | | |
| | Good Chemical Resistance | | |
| | Good Impact Resistance | | |
| | Good Processability | | |
| | Good Toughness | | |
| | High Clarity | | |
| | High Heat Resistance | | |
| | Hydrolytically Stable | | |
| | Radiation Sterilizable | | |
| Uses | Medical Devices | | |
| | Medical/Healthcare Applications | | |
| Agency Ratings | FDA Unspecified Rating | | |
| | ISO 10993 | | |
| | USP Class VI | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.17 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.50 to 0.70 | % | ASTM D955 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale, 23°C) | 115 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (23°C) | 1590 | MPa | ASTM D638 |
| Tensile Strength | | | ASTM D638 |
| Yield, 23°C | 44.0 | MPa | |
| Break, 23°C | 53.0 | MPa | |
| Tensile Elongation | | | ASTM D638 |
| Yield, 23°C | 7.0 | % | |

| | | | |
|-----------------------------------|---------------|------|-------------|
| Break, 23°C | 140 | % | |
| Flexural Modulus (23°C) | 1590 | MPa | ASTM D790 |
| Flexural Strength (Yield, 23°C) | 66.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 650 | J/m | ASTM D256 |
| Unnotched Izod Impact (23°C) | No Break | | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 109 | °C | |
| 1.8 MPa, Unannealed | 92.0 | °C | |
| Optical | Nominal Value | Unit | Test Method |
| Transmittance (Total) | 92.0 | % | ASTM D1003 |
| Haze | < 1.0 | % | ASTM D1003 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 88.0 | °C | |
| Drying Time | 4.0 to 6.0 | hr | |
| Processing (Melt) Temp | 260 to 282 | °C | |
| Mold Temperature | 38.0 to 66.0 | °C | |

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