

## Eastman Tritan MX810 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

### Material Notes:

**Applications:**Blood TherapyDialyzer HousingsIV Components**Key Attributes:**Ease of processingExcellent clarityExcellent hydrolytic stabilityFast drying timesGood chemical resistanceOutstanding impact resistanceQuick cycle times**Product Description:**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.Information provided by Eastman.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eastman-Tritan-MX810-Copolyester.php](http://www.lookpolymers.com/polymer_Eastman-Tritan-MX810-Copolyester.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	53.0 MPa	7690 psi	ASTM D638
Tensile Strength, Yield	44.0 MPa	6380 psi	ASTM D638
Elongation at Break	140 %	140 %	ASTM D638
Elongation at Yield	7.0 %	7.0 %	ASTM D638
Tensile Modulus	1.585 GPa	229.9 ksi	ASTM D638
Flexural Strength	66.0 MPa	9570 psi	ASTM D790
Flexural Modulus	1.585 GPa	229.9 ksi	ASTM D790
Izod Impact, Notched	6.50 J/cm	12.2 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	109 °C	228 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	92.0 °C	198 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Transmission, Visible	92 %	92 %	Total; ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 282 °C	500 - 540 °F	
Mold Temperature	38.0 - 66.0 °C	100 - 151 °F	
Drying Temperature	88.0 °C	190 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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