

## Eastman Tritan MX811 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

**Material Notes:**

Applications: Blood Therapy Dialyzer Housings IV Components  
 Key Attributes: Ease of processing Excellent clarity Excellent hydrolytic stability Fast drying times Good chemical resistance Good heat resistance Outstanding impact resistance Quick cycle times Product

Description: Eastman Tritan MX811 is an amorphous copolyester with excellent appearance and clarity. Tritan MX811 contains a mold release derived from vegetable based sources. 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 Copolyester MX811 has been formulated for medical devices. Eastman Tritan Copolyester MX811 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-MX811-Copolyester.php](http://www.lookpolymers.com/polymer_Eastman-Tritan-MX811-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.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China