

Tritan™ MX811

Copolyester
Eastman Chemical Company

Message:

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.

General Information			
Additive	Mold Release		
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		
Uses	Radiation Sterilizable		
	Medical Devices		
Agency Ratings	Medical/Healthcare Applications		
	FDA Unspecified Rating		
	ISO 10993		
Physical	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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