Tritan™ MX711

Copolyester

Eastman Chemical Company

Message:

Eastman Tritan™ Copolyester MX711 is an amorphous product with excellent appearance and clarity. Eastman Tritan™ Copolyester MX711 contains a mold release derived from vegetable based sources. Eastman Tritan™ Copolyester MX711 has many outstanding features that include excellent toughness, hydrolytic stability, heat resistance, and chemical resistance. Eastman Tritan™ Copolyester MX711 has been formulated for medical devices. Eastman Tritan™ Copolyester MX711 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 Durable Ethylene Oxide Sterilizable Fast Molding Cycle Good Chemical Resistance Good Color Stability Good Mold Release Good Processability Good Toughness High Clarity High Heat Resistance High Impact Resistance Hydrolytically Stable Pleasing Surface Appearance Radiation Sterilizable		
Uses	Medical Devices Medical/Healthcare Applications		
Agency Ratings	ISO 10993 USP Class VI		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.18	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 23°C)	112		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Modulus (23°C)	1550	MPa	ASTM D638, ISO 527-2
Tensile Strength			
Yield, 23°C	43.0	MPa	ASTM D638, ISO 527-2
Break, 23°C	53.0	MPa	ASTM D638
Break, 23°C	58.0	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	6.0	%	ASTM D638
Yield, 23°C	7.0	%	ISO 527-2
Break, 23°C	210	%	ASTM D638
Break, 23°C	190	%	ISO 527-2
Flexural Modulus			
23°C	1550	MPa	ASTM D790
23°C	1500	MPa	ISO 178
Flexural Stress			
23°C	59.0	MPa	ISO 178
Yield, 23°C	62.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
-40°C	110	J/m	ASTM D256
23°C	980	J/m	ASTM D256
-40°C	20	kJ/m^2	ISO 180
23°C	93	kJ/m^2	ISO 180
Unnotched Izod Impact			ASTM D4812
-40°C	No Break		
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	66.0	J	
23°C, Energy at Peak Load	61.0	J	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	99.0	°C	
1.8 MPa, Unannealed	85.0	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (Total)	90.0	%	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	

infringement occurs, please contact us immediately.

Recommended distributors for this material

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