Tritan™ MX730

Copolyester

Eastman Chemical Company

Message:

Eastman Tritan™ Copolyester MX730 is an amorphous product with excellent appearance and clarity. Eastman Tritan™ Copolyester MX730 is a high flow medical grade of Eastman Tritan™ that has viscosity reductions of 40-50% relative to Eastman Tritan™ Copolyester MX710. Eastman Tritan™ Copolyester MX730 has many outstanding features that include excellent toughness, hydrolytic stability, heat resistance, chemical resistance, and melt flowability. Eastman Tritan™ Copolyester MX730 has been formulated for medical devices. Eastman Tritan™ Copolyester MX730 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 Color Stability
	Good Processability
	Good Toughness
	High Clarity
	High Flow
	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	1.18	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)	111		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
23°C	1580	MPa	ASTM D638
23°C	1600	MPa	ISO 527-2
Tensile Strength			

Yield, 23°C	43.0	MPa	ASTM D638
Yield, 23°C	44.0	MPa	ISO 527-2
Break, 23°C	52.0	MPa	ASTM D638
Break, 23°C	49.0	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	7.0	%	ASTM D638, ISO 527-2
Break, 23°C	210	%	ASTM D638
Break, 23°C	150	%	ISO 527-2
Flexural Modulus			
23°C	1580	MPa	ASTM D790
23°C	1500	MPa	ISO 178
Flexural Stress			
23°C	60.0	MPa	ISO 178
Yield, 23°C	64.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	860	J/m	ASTM D256
-40°C	11	kJ/m^2	ISO 180
23°C	83	kJ/m^2	ISO 180
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	94.0	°C	
1.8 MPa, Unannealed	81.0	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (Total)	91.0	%	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	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


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