

Tritan™ MX710

Copolyester
Eastman Chemical Company

Message:

Eastman Tritan™ Copolyester MX710 is an amorphous product with excellent appearance and clarity. Eastman Tritan™ Copolyester MX710 has many outstanding features that include excellent toughness, hydrolytic stability, heat resistance, and chemical resistance. Eastman Tritan™ Copolyester MX710 has been formulated for medical devices.

General Information			
Features	Amorphous		
	Ethylene Oxide Sterilizable		
	Fast Molding Cycle		
	Good Chemical Resistance		
	Good Color Stability		
	Good Impact Resistance		
	Good Processability		
	Good Toughness		
	High Clarity		
	High Heat Resistance		
	Hydrolytically Stable		
	Pleasing Surface Appearance		
	Radiation Sterilizable		
Uses	Medical Devices		
	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	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)	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	

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