

Tritan™ TX1000

Copolyester
Eastman Chemical Company

Message:

Eastman Tritan™ TX1000 is an amorphous copolyester with excellent appearance and clarity. 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. Combined with Tritan™ copolyester's outstanding chemical resistance and hydrolytic stability, these features give molded products enhanced durability in the dishwasher environment, which can expose products to high heat, humidity and aggressive cleaning detergents. Tritan™ TX1000 copolyester may be used in repeated use food contact articles under United States Food and Drug Administration (FDA) regulations. Tritan™ TX1000 copolyester is certified to NSF/ANSI Standard 51 for Food Equipment Materials.

General Information			
UL YellowCard	E118289-101106990		
Features	Amorphous		
	Copolymer		
	Durable		
	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Processability		
	Good Toughness		
	High Clarity		
	High Heat Resistance		
	High Impact Resistance		
	Hydrolytically Stable		
	Pleasing Surface Appearance		
Uses	Appliances		
	Consumer Applications		
	Household Goods		
Agency Ratings	FDA Food Contact, Unspecified Rating		
	NSF 51		
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
Yield, 23°C	47.0	MPa	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			
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 (23°C)	No Break		ASTM D4812
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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