

Tritan™ TX1001

Copolyester

[Eastman Chemical Company](#)

### Product Description:

Eastman Tritan™ TX1001 is an amorphous copolyester with excellent appearance and clarity. Eastman Tritan™ TX1001 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. 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™ TX1001 copolyester may be used in repeated use food contact articles under United States Food and Drug Administration (FDA) regulations. Tritan™ TX1001 copolyester is certified to NSF/ANSI Standard 51 for Food Equipment Materials and is also certified to NSF/ANSI Standard 61 - Drinking Water System Components-Health Effects.

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- [Visual Analysis](#)
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- [Units: English](#)

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### General

Material Status • Commercial: Active

Literature<sup>1</sup> [Processing - Injection Molding Guide \(English\)](#)

[Technical Datasheet \(English\)](#)

UL Yellow Card<sup>2</sup> [E118289-100074991](#)

Search for UL [Eastman Chemical Company](#)

Yellow Card [Tritan™](#)

Availability • [Africa & Middle East](#) • [Europe](#) • [North America](#)  
• [Asia Pacific](#) • [Latin America](#)

- Additive
    - Mold Release
  - Amorphous
    - Chemical Resistant
  - Features
    - Copolymer
    - Durable
    - Fast Molding Cycle
  - Uses
    - Appliances
    - Consumer Applications
  - Agency Ratings
    - FDA Food Contact, Unspecified Rating
- Food Contact Acceptable
  - Good Mold Release
  - Good Processability
  - Good Toughness
  - High Clarity
  - Household Goods
  - White Goods & Small Appliances
  - NSF STD-51
  - NSF STD-61
  - High Heat Resistance
  - High Impact Resistance
  - Hydrolytically Stable
  - Pleasing Surface Appearance

Processing Method • Injection Molding

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18		ASTM D792
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	225000	psi	ASTM D638, ISO 527-2
Tensile Strength Yield, 73°F	6240	psi	ASTM D638, ISO 527-2
Break, 73°F	7690	psi	ASTM D638
Break, 73°F	8410	psi	ISO 527-2
Tensile Elongation Yield, 73°F	6.0%		ASTM D638

Yield, 73°F	7.0%	ISO 527-2
Break, 73°F	210%	ASTM D638
Break, 73°F	190%	ISO 527-2
Flexural Modulus		
73°F	225000psi	ASTM D790
73°F	217000psi	ISO 178
Flexural Stress		
73°F	8560psi	ISO 178
Yield, 73°F	8990psi	ASTM D790
<b>Impact</b>	Nominal ValueUnit	Test Method
Notched Izod Impact		
73°F	18ft-lb/in	ASTM D256
-40°F	9.5ft-lb/in <sup>2</sup>	ISO 180
73°F	44ft-lb/in <sup>2</sup>	ISO 180
Unnotched Izod Impact (73°F)	No Break	ASTM D4812
<b>Thermal</b>	Nominal ValueUnit	Test Method
Deflection Temperature Under Load		ASTM D648
66 psi, Unannealed	210°F	
264 psi, Unannealed	185°F	
<b>Optical</b>	Nominal ValueUnit	Test Method
Transmittance (Total)	90.0%	ASTM D1003
Haze	< 1.0%	ASTM D1003
<b>Injection</b>	Nominal ValueUnit	
Drying Temperature	190°F	
Drying Time	4.0 to 6.0hr	
Processing (Melt) Temp	500 to 540°F	
Mold Temperature	100 to 151°F	

#### Notes

<sup>1</sup>These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup>A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

#### Revision History

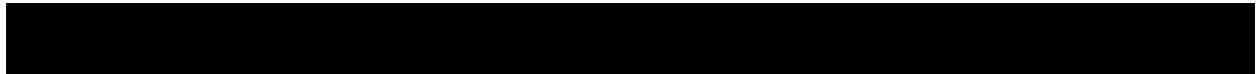
Added to Prospector: May 2008

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