

Tritan™ TX1001

Eastman Tritan™ TX1001 is an amorphous copolyester with excellent appearance and clarity. 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.

Physical Properties

MEASUREMENT	CONDITION	Value
Density / Specific Gravity	ASTM D792	1.18
Molding Shrinkage - Flow (73°F)	ASTM D955	5.0E-3 to 7.0E-3in/in

Hardness Properties

MEASUREMENT	CONDITION	Value
Rockwell Hardness (R-Scale, 73°F)	ASTM D785	112

Mechanical Properties

MEASUREMENT	CONDITION	Value
Tensile Modulus (73°F)	ASTM D638, ISO 527-1	225000psi
Tensile Strength		
Yield, 73°F	ASTM D638, ISO 527-2	6240 psi
Break, 73°F	ASTM D638	7690psi
Break, 73°F	ISO 527-2	8410psi
Tensile Elongation		
Yield, 73°F	ASTM D638	6.0%
Yield, 73°F	ISO 527-2	7.0%
Break, 73°F	ASTM D638	210%
Break, 73°F	ISO 527-2	190%
Flexural Modulus		
73°F	ASTM D790	225000psi
73°F	ISO 178	217000psi
Flexural Stress		
73°F	ISO 178	8560psi
Yield, 73°F	ASTM D790	8990psi

Features

- Amorphous
- Chemical Resistant
- Durable
- Fast Molding Cycle
- Food Contact Acceptable
- Good Heat Resistance
- Good Mold Release
- Good Processability
- High Clarity
- High Impact Resistance
- High Toughness
- Hydrolytically Stable
- Pleasing Surface Appearance

Applications

- Appliances
- Automotive Applications
- Consumer Applications
- Displays
- Eyeglass Frames
- Eyeglasses
- Household Goods
- Housings
- Lighting Applications
- Molds/Dies/Tools
- Packaging
- Personal Care
- Sporting Goods
- Tape
- Toys

contact@quickparts.com | www.quickparts.com

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North America
+1 931 766 7290

United Kingdom
+44 (0) 1494 479 690

Germany
+49 (0) 6073 689 6000

France
+33 (0) 2 43 51 20 30

Italy
+39 0121 390310

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Impact Properties

MEASUREMENT	CONDITION	Value
Notched Izod Impact		
73°F	ASTM D256	18ft·lb/in
-40°F	ISO 180	9.5ft·lb/in ²
73°F	ISO 180	44ft·lb/in ²
Unnotched Izod Impact (73°F)	ASTM D4812	No Break

Thermal Properties

MEASUREMENT	CONDITION	Value
Deflection Temperature Under Load		
66 psi, Unannealed	ASTM D648	210°F
264 psi, Unannealed		185°F

Optical Properties

MEASUREMENT	CONDITION	Value
Light Transmittance (Total)	ASTM D1003	90.0%
Haze	ASTM D1003	< 1.00%

Injection Properties

MEASUREMENT	Value
Drying Temperature	190°F
Drying Time	4.0 to 6.0hr
Processing (Melt) Temp	500 to 540°F
Mold Temperature	100 to 151°F

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