

Product Data Sheet

Eastman Tritan Copolyester TX2001

Application/Uses

- Appliances
- Consumer and durable goods
- Housewares
- Small appliances

Key Attributes

- Ease of processing
- Excellent clarity
- Excellent hydrolytic stability
- Fast drying times
- Good chemical resistance
- Good heat resistance
- Outstanding impact resistance
- Quick cycle times

Product Description

Eastman Tritan TX2001 is an amorphous copolyester with excellent appearance and clarity. Tritan TX2001 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 agents. Tritan TX2001 copolyester may be used in repeated use food contact articles under United States Food and Drug Administration (FDA) regulations. Tritan TX2001 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.

Typical Properties (Preliminary)

Specific Gravity	D 792	1.17
Mold Shrinkage	D 955	0.005-0.007 mm/mm (0.005-0.007 in./in.)
Tensile Stress @ Yield	D 638	44 MPa (6400 psi)
Tensile Stress @ Break	D 638	53 MPa (7700 psi)
Elongation @ Yield	D 638	7%
Elongation @ Break	D 638	140%
Tensile Modulus	D 638	1585 MPa (2.28 )
Flexural Modulus	D 790	1585 MPa (2.28 )
Flexural Yield Strength	D 790	66 MPa (9600 psi)
Rockwell Hardness, R Scale	D 785	115
Izod Impact Strength, Notched @ 23°C (73°F)	D 256	650 J/m (12.2 ft-lbf/in.)
Impact Strength, Unnotched @ 23°C (73°F)	D 4812	NB
Deflection Temperature		
@ 0.455 MPa (66 psi)	D 648	109°C (228°F)
@ 1.82 MPa (264 psi)	D 648	92°C (198°F)
Total Transmittance	D 1003	92%
Haze	D 1003	<1%
Drying Temperature		88°C (190°F)
Drying Time		4-6 hrs
Processing Melt Temperature		260-282°C (500-540°F)
Mold Temperature		38-66°C (100-150°F)

Comments

Properties reported here are based on limited testing. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.