

Eastman Tritan TX1001 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

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. 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 Typical properties as listed are from preliminary data. Information was provided by Eastman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Tritan-TX1001-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength at Break	53.0 MPa	7690 psi	ASTM D638
Tensile Strength, Yield	43.0 MPa	6240 psi	ASTM D638
Elongation at Break	210 %	210 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Tensile Modulus	1.55 GPa	225 ksi	ASTM D638
Flexural Yield Strength	62.0 MPa	8990 psi	ASTM D790
Flexural Modulus	1.55 GPa	225 ksi	ASTM D790
Izod Impact, Notched	9.80 J/cm	18.4 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	99.0 °C	210 °F	ASTM D648
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	85.0 °C Metric	185 °F English	ASTM D648 Comments
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Optical Properties	Metric	English	Comments
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Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
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Transmission, Visible	90 %	90 %	ASTM D1003
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Compliance Properties	Metric	English	Comments
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FDA	Yes	Yes	Repeated use food contact articles
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NSF	Yes	Yes	Food equipment materials & Drinking water system components - health effects; NSF/ANSI Standards 51 & 61
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Processing Properties	Metric	English	Comments
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Processing Temperature	260 - 282 °C	500 - 540 °F	
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Mold Temperature	38.0 - 66.0 °C	100 - 151 °F	
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Drying Temperature	88.0 °C	190 °F	
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Dry Time	4 - 6 hour	4 - 6 hour	
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