ΕΛSTΜΛΝ





Eastman Tritan[™] Copolyester TXF1021, Natural

Applications

Consumer electronics

Small appliances non-food contact

Device housings

- Ease of decorationEase of processing
- - Ease of secondary operations

Key Attributes

- Excellent aesthetics and glossExcellent hydrolytic stability
- Good chemical resistance
- Good cheat resistance
- Good melt flowability
- Good toughness

Product Description

Eastman Tritan[™] Copolyester TXF1021 is an amorphous, opaque material offering UL-94 V2 performance with outstanding aesthetics and gloss. Eastman Tritan[™] Copolyester TXF1021 has many outstanding features that include excellent toughness, hydrolytic stability, heat resistance, chemical resistance, and melt flowability. Eastman Tritan[™] Copolyester TXF1021 offers improved design flexibility needed in portable consumer electronic devices. Eastman Tritan[™] Copolyester TXF1021 has passed FDA/ISO 10993 testing for skin sensitization. Eastman Tritan[™] Copolyester TXF1021 contains a non-halogenated flame retardant.

Typical Properties

Property ^a	Test Method	Typical Value, Units
Electrical Properties		
Dielectric Constant RT		
@ Thickness 1.5 mm	1 kHz	3.31
@ Thickness 1.5 mm	1 MHz	3.04
General Properties		
Specific Gravity	D 792	1.19
Mold Shrinkage	D 955	0.005-0.007 mm/mm (0.005-0.007
Mechanical Properties		····/····)
Tensile Stress @ Yield	D 638	42 MPa (6100 psi)
Tensile Stress @ Break	D 638	46 MPa (6670 psi)
Elongation @ Yield	D 638	6 %
Elongation @ Break	D 638	133 %
Tensile Modulus	D 638	1611 MPa (2.36 x 10 ⁵ psi)
Flexural Modulus	D 790	1743 MPa (2.52 x 10 ⁵ psi)
Rockwell Hardness, R Scale	D 785	109
Izod Impact Strength, Notched		
@ 23°C (73°F)	D 256	436 J/m (7.7 ft·lbf/in.)
Impact Strength, Unnotched		
@ 23°C (73°F)	D 4812	NB
Thermal Properties		
Deflection Temperature		
@ 0.455 MPa (66 psi)	D 648	94 °C (201 °F)
@ 1.82 MPa (264 psi)	D 648	83 °C (181 °F)
Flammability		
@ Thickness 1.5 mm	UL 94	V2

@ Thickness 3.0 mm	UL 94	V2
Typical Processing Conditio	ns	
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)
Mold Temperature		38-66 °C (100-150 °F)

a Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity. b Unless noted otherwise, the test method is ASTM.

^CUnits are in SI or US customary units.

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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