



Product Data Sheet

Eastman Tritan™ Copolyester GX100

Application/Uses

- Building and Construction
- Displays
- Durables
- Electronics
- Signs
- Transportation and Outdoor Vehicles

Key Attributes

- Does not contain Bisphenol-A (BPA)
- Does not contain plasticizers
- Ease of fabrication
- High impact
- Temperature resistance
- Thermoforming
- Transparent

Product Description

Eastman Tritan™ copolyester GX100's strength, clarity and temperature resistance make it ideal for demanding applications. Extruded sheet is manufactured with Eastman's Tritan™ copolyester GX100 resin in a thickness range from 0.080" to 0.250". It is readily available in clear with colors available upon request.

Typical Properties (Preliminary)

Property ^a	Test ^b Method	Typical Value, Units ^c
General Properties		
Thickness of Film Tested	D 374	2.97 mm (0.117 in.)
Specific Gravity	D 792	1.18 (118)
Water Absorption, 24 h immersion	D 570	0.18% (0.18)
Mechanical Properties		
Tensile Stress @ Yield	D 638	45 MPa (6527 psi)
Tensile Stress @ Break	D 638	46 MPa (6672 psi)
Elongation @ Yield	D 638	7% (7)
Elongation @ Break	D 638	133% (133)
Flexural Modulus	D 790	1483 MPa (2.18 x 10 ⁵ psi)
Rockwell Hardness, R Scale	D 785	114 (114)
Izod Impact Strength, Notched		
@ 23°C (73°F)	D 256	1011 J/m (18.9 ft·lbf/in.)
@ 0°C (32°F)	D 256	1006 J/m (18.8 ft·lbf/in.)
@ -30°C (-22°F)	D 256	133 J/m (2.5 ft·lbf/in.)
Impact Strength, Unnotched		

@ 23°C (73°F)	D 4812	No Break J/m (No Break ft·lbf/in.)
@ 0°C (32°F)	D 4812	No Break J/m (No Break ft·lbf/in.)
@ -30°C (-22°F)	D 4812	1214 J/m (22.8 ft·lbf/in.)

Thermal Properties

Vicat Softening Temperature	D 1525	110°C (230°F)
Deflection Temperature		
@ 0.455 MPa (66 psi)	D 648	99.2°C (210.56°F)
@ 1.82 MPa (264 psi)	D 648	90.9°C (195.62°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.

^c Units are in SI or US customary units.

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.

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