

The Glass Polymer™ family of cosmetic materials

Cosmetics and personal care packaging

Eastman Tritan™ copolyester heat resistant . . . chemically compatible

The differentiated durability of Eastman's new-generation copolyester is sure to make lasting impressions in the cosmetics and personal care market. Eastman Tritan™ is a tough, heat resistant material that can maintain functional and aesthetic integrity over a products life — protecting the precious contents of your newest application.

Eastman Tritan™ copolyester's unique balance of advantages enables distinctive products with compelling value. We invite you to sample it for your newest cosmetics package today.

*Explore the enhanced attributes of Eastman Tritan™ copolyester,
a member of The Glass Polymer™ portfolio*

- Superior chemical compatibility
- Highest heat resistance
- High-flow amorphous copolyester
- BPA (bisphenol-A) free

Processing has never been easier

- Injection moldable
- Extrusion blow moldable
- Injection blow moldable



For more information, contact Jayme Leita at 1-423-229-3682 or email jleita@eastman.com. For inspirational package design, visit www.eastmaninnovationlab.com.

The results of insight™

Typical properties (preliminary)

Property ^a	Test ^b method	Typical value, units ^c
General properties		
Specific gravity	D 792	1.18
Mold shrinkage	D 955	0.005–0.007 mm/mm (0.005–0.007 in./in.)
Mechanical properties		
Tensile stress @ yield	D 638	43 MPa (6200 psi)
Tensile stress @ break	D 638	52 MPa (7500 psi)
Elongation @ yield	D 638	7%
Elongation @ break	D 638	210%
Tensile modulus	D 638	1575 MPa (2.28 × 10 ⁵ psi)
Flexural modulus	D 790	1575 MPa (2.28 × 10 ⁵ psi)
Flexural yield strength	D 790	64 MP (9300 psi)
Rockwell hardness, R scale	D 785	111
Izod impact strength, notched		
@ 23°C (73°F)	D 256	860 J/m (16.1 ft•lbf/in.)
@ –40°C (–40°F)	D 256	110 J/m (2.1 ft•lbf/in.)
Impact strength, unnotched		
@ 23°C (73°F)	D 4812	NB
@ –40°C (–40°F)	D 4812	NB
Impact resistance (puncture), energy @ max. load		
@ 23°C (73°F)	D 3763	53 J (39 ft•lbf)
@ –40°C (–40°F)	D 3763	57 J (42 ft•lbf)

Property ^a	Test ^b method	Typical value, units ^c
Thermal properties		
Deflection temperature		
@ 0.455 MPa (66 psi)	D 648	94°C (201°F)
@ 1.82 MPa (264 psi)	D 648	81°C (178°F)
Optical properties		
Total transmittance	D1003	91%
Haze	D 1003	<1%
Typical processing conditions		
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)

^aUnless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^bUnless noted otherwise, the test method is ASTM.

^cUnits 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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