

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.

Tritan'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
- High heat resistance enables hot fill
- High-flow amorphous copolyester
- BPA (bisphenol A) free

Processing has never been easier.

- Injection moldable
- Extrusion blow moldable
- Injection blow moldable



Typical properties (preliminary)

Property ^a	Test ^b method	Typical value, units ^c
General properties		
Specific gravity	D792	1.18
Mold shrinkage	D955	0.005–0.007 mm/mm (0.005–0.007 in./in.)
Mechanical properties		
Tensile stress @ yield	D638	43 MPa (6,200 psi)
Tensile stress @ break	D638	52 MPa (7,500 psi)
Elongation @ yield	D638	7%
Elongation @ break	D638	210%
Tensile modulus	D638	1,575 MPa (2.28 × 10 ⁵ psi)
Flexural modulus	D790	1,575 MPa (2.28 × 10 ⁵ psi)
Flexural yield strength	D790	64 MP (9,300 psi)
Rockwell hardness, R scale	D785	111
Izod impact strength, notched		
@ 23°C (73°F)	D256	860 J/m (16.1 ft-lbf/in.)
@ –40°C (–40°F)	D256	110 J/m (2.1 ft-lbf/in.)
Impact strength, unnotched		
@ 23°C (73°F)	D4812	NB (no break)
@ –40°C (–40°F)	D4812	NB
Impact resistance (puncture), energy @ max. load		
@ 23°C (73°F)	D3763	53 J (39 ft-lbf)
@ –40°C (–40°F)	D3763	57 J (42 ft-lbf)

Property ^a	Test ^b method	Typical value, units ^c
Thermal properties		
Deflection temperature		
@ 0.455 MPa (66 psi)	D648	94°C (201°F)
@ 1.82 MPa (264 psi)	D648	81°C (178°F)
Optical properties		
Total transmittance	D1003	91%
Haze	D1003	<1%
Typical processing conditions		
Drying temperature		88°C (190°F)
Drying time		4–6 h
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.

EASTMAN

The results of insight™

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