

Eastman Tritan™ MP100 copolyester—technical tip

Storage and shipping conditions

Eastman Tritan™ MP100 copolyester is a clear, amorphous material. Because of its clarity, toughness, and good melt strength at processing temperatures, it is useful in a variety of processing techniques, including film and sheet extrusion.

As a raw material or in pellet form, it should always be kept out of the elements—rain, snow, direct sunlight, etc. To keep it clean from dust and other contaminants, cover the material during storage. Temperature and humidity should be kept to a minimum.

Tritan MP100 extruded sheeting or thermoformed articles physically age more slowly when not exposed to high temperatures and humidity (although there are no restrictions). Ideally, store Tritan MP100 copolyester sheeting and articles in an air-conditioned setting. This is not always feasible, so reasonable warehousing conditions are recommended. The warehouse should remain below 110°F during the hottest part of the day.

Double or triple stacking skids of extruded sheet or skids of thermoformed packages is discouraged because it exposes the plastic to higher temperatures nearer the ceiling.

Aged extruded sheet may still be thermoformed, although significantly aged sheet might be brittle in the chain rails. However, if you are able to thermoform the sheet, the plastic will revert to original new condition because the temperature has gone above the glass transition temperature (T_g). The T_g for Tritan MP100 is 229°F (110°C). Once newly thermoformed, the aging process starts again.

The shelf life of Tritan MP100 can depend on the local climate. Customers in tropical climates with warmer temperatures year-around, for example, will experience brittle sheet sooner than customers in more temperate climates. Generally speaking, extruders can expect the material to remain in good condition for six months to one year.

For best results, thermoformed packages should be packaged and shipped to air-conditioned storage as soon as possible.

HANDLING AND STORAGE

- Avoid contact with molten material.
- Minimize dust generation and accumulation.
- Keep containers closed.
- Lower temperatures can prolong shelf life.

TRANSPORT INFORMATION

- DOT: Class not regulated
- IMDG (International Maritime Dangerous Goods Code): Class not regulated
- IATA: Class not regulated

For more information, visit eastman.com/tritan.



Eastman Corporate Headquarters
P.O. Box 431
Kingsport, TN 37662-5280 U.S.A.

U.S.A. and Canada, 800-EASTMAN (800-327-8626)
Other Locations, +(1) 423-229-2000

www.eastman.com/locations

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