

Eastman Tritan™ copolyester

Enhanced capability injection molding material for the infant care market

Eastman Tritan™ copolyester provides infant care customers a clear polymer product with a balance of performance and processibility. This balance helps Tritan create exciting opportunities to differentiate your products through lasting aesthetic appeal and value. Some unexpected advantages include excellent toughness, chemical resistance, higher temperature resistance, low and stable shrinkage rates, and other enhanced physical properties. Colors and UV additives are also available.

- Excellent chemical resistance
- Excellent toughness
- Ease of processing
 - Easy-dry resin
 - Optimum cycle time
 - Same mold shrinkage value as polycarbonate
- Good optical properties
- Higher temperature resistance
- Performs well in secondary operations

Basic properties

Property	ASTM method	Eastman Tritan™ copolyester
		EX401
Specific gravity	D792	1.17
Mold shrinkage, in./in. or mm/mm	D955	0.005–0.007
Tensile stress @ yield, psi (MPa)	D638	6,400 (44)
Tensile stress @ break, psi (MPa)	D638	7,700 (53)
Elongation @ tensile break, %	D638	140
Flexural modulus, psi (MPa)	D790	228,000 (1,585)
Rockwell hardness, R scale	D785	115
Notched Izod impact strength @ 23°C (73°F), ft-lb/in. (J/m)	D256	12.2 (650)
Notched Izod impact strength @ –40°C (–40°F), ft-lb/in. (J/m)	D256	2.4 (126)
Deflection temperature @ 66 psi (0.455 MPa), °C (°F)	D648	109 (228)
Deflection temperature @ 264 psi (1.82 MPa), °C (°F)	D648	92 (198)

Suggested drying and processing conditions

Condition	EX401
Drying temperature, °C (°F)	88 (190)
Drying time, hr	4–6
Dryer air dew point, °C (°F)	< –29 (< –20)
Melt temperature (may be different from barrel temperature), °C (°F)	260–282 (500–540)
Mold temperature, °C (°F)	38–66 (100–150)



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