

Inspria® Med

Solid HT-copolyester sheet for medical applications



Your benefits:

- suitable for medical packaging applications
- good impact strength
- high temperature resistance
- high clarity

Solid **Inspria® Med** sheets are made of Eastman Tritan™ MP100 copolyester and meet the ISO 10993/USP Class VI biocompatibility requirements. They are clear transparent and combine high impact strength with excellent thermoforming properties.

Inspria® Med clear 099 is a clear transparent sheet with extremely high light transmission and high gloss. It can be subjected to several methods of sterilization, including Gamma-radiation and ethylene oxide.

Applications:

Ideal fields of application for **Inspria® Med** are: dental aligners, rigid medical packaging, containers and trays for medical devices.

Inspria® Med can be thermoformed to extreme degrees of stretching and accurate mold surface reproduction. The sheets can withstand temperatures up to 90°C and are easy to machine.

	Test Conditions	Typical values ⁽¹⁾	Unit	Standard
PHYSICAL Density Moisture absorption	24 h immersion 23°C	1.19 0.5	g/cm ³ %	ISO 1183-1 ISO 62
MECHANICAL Tensile stress at yield Tensile strength Elongation at yield Elongation at break Tensile modulus Flexural modulus Impact strength	Izod notched 23 °C	43 58 7 185 1,548 1,495 93	MPa MPa % % MPa MPa kJ/m ²	ISO 527 ISO 527 ISO 527 ISO 527 ISO 527 ISO 178 ISO 180/1A
THERMAL Coeff. of linear thermal expansion		0.09	mm/m K	ASTM D696

(1) These values are measured on injection moulded samples and are not intended for specification purposes

EASTMAN

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Ideas, innovative, intelligent, interesting... Exolon Group i-line represents the next generation of quality products. This seal guarantees innovative and intelligent first-class solutions at all times for a multitude of requirements.

Available sizes:

Inspria® Med clear 099 is available on request in thicknesses of 0.60 - 5 mm.

The sheets are also available with anti-block properties, on request. Please contact us.

Thermoforming:

Inspria® Med sheets can be thermoformed at temperatures between 150 and 175°C. The sheets show excellent flow and mold surface reproduction.

Medical compatibility

Inspria® Med is produced based on 100% virgin resin which meets ISO 10993 requirements. The sheets are produced under GMP conditions and under a quality management system which meets ISO 9001:2015.

The biocompatibility of the final product made out of **Inspria® Med** sheets for use in a medical application compliant with the medical regulations cannot be based solely on tests performed on the resin or the sheet. It is the sole responsibility of the manufacturer of the final end-use product to conduct all necessary tests (including biocompatibility tests) and inspections and to evaluate the final product under actual end-use requirements.

Please check our Medical Reference Guide for further information.

Exolon Group also produces multiwall sheets in polycarbonate (Exolon® multi UV), and solid sheets in polycarbonate (Exolon® GP) and in polyester (Vivak® and Axpert®). For more information, take a look at www.exolongroup.com.



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