



TRY-23

Try-Ins Resin

PERFECT FOR

- Try-in dentures and diagnostic dentures
- Try-in implant-supported dentures
- Try-in verification for up to 24 hours



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Biocompatible, CE Class I marked resin for 3D printing dental try-ins. High flexural modulus (>2 GPa) and very low water absorption holds dimensions across the try-in workflow, from lab to chair-side and back. MMA, BPA, phthalate and TPO free, available in tooth shades A1, A2, B1, and B2, with a smooth finish that cuts, stains, and polishes easily.

MATERIAL PROPERTIES

- **High flexural modulus (>2 GPa):** rigid enough to hold shape for accurate fit verification.
- **Very low water absorption:** supports dimensional stability.
- **High accuracy:** holds dimensions through lab-to-clinic transit, chairside adjustment, and rescanning workflows.
- **Works on any printer:** works well on printers with light source between 385 nm and 405 nm.
- **TPO, THFA, MMA, BPA, and phthalate free.**
- **Multiple tooth shades:** A1, A2, B1, B2.
- **Smooth surface finish.**
- **Easy to cut and carve for chairside adjustment.**
- **Easy to stain and polish.**
- **Biocompatible:** CE Class I marked and compliant with EN ISO 10993-1.

TECHNICAL DATA

Tensile Properties	Standard	Value	Other Properties	Standard	Value
Elongation Modulus, GPa	ISO 527A	2.7	Glass transition temperature, °C tan d	ASTM 5023	85.8
Stress at Yield, MPa		54.4	Glass transition temperature, °C E'		26.3
Elongation at Yield, %		4.1	Glass transition temperature, °C E''		44.4
Stress at Break, MPa		46.1	Shrink compensation, %	Internal	100.6
Elongation at Break, %		8.7	Light bleed compensation, µm		-25
Flexural Properties	Standard	Value	Impact resistance (notched), kJ·m ²	ASTM D256	2.16
Flexural Modulus, GPa	ISO 178	2.03	Vicat softening temperature, °C	ASTM D1525	71.6
Flexural Strength, MPa		63.4	HDT @ 0.45 MPa, °C	ISO 75	57.6
Flexural Strain at Yield, %		5.6	HDT @ 1.8 MPa, °C		-
Strain at Break, %		-	HDT @ 8 MPa, °C		-
Compressive Properties	Standard	Value	Density (liquid), g·cm ⁻³	ISO 2811	1.098
Compressive Modulus	ASTM D695	1.21	Density (solid), g·cm ⁻³	ISO 1183	1.2
Working Curve parameters¹			Viscosity at 25 °C, mPa·s	ISO 2555	1202
			Hardness, Shore D	ASTM D2240	82
			Water absorption (24 h), %	ASTM D570	0.62
Property	Value				
Critical Dose, mJ·cm ⁻²	5.23				
Light penetration depth, µm ¹	0.16				

Tensile Properties	Standard	Non post cured ²	After 24 h in water ³	After 24 h of drying at 50 °C ³	4 weeks in darkness ³	4 weeks in sunlight ³
Elongation Modulus, GPa	ISO 527A	0.94	2.45	3	2.67	3.1
Stress at Yield, MPa		-	46.3	56.2	57	57
Elongation at Yield, %		-	4.2	4.88	4.1	3.9
Stress at Break, MPa		23.9	40.4	56.2	50.8	53
Elongation at Break, %		31	11.5	7.3	7.6	6.2

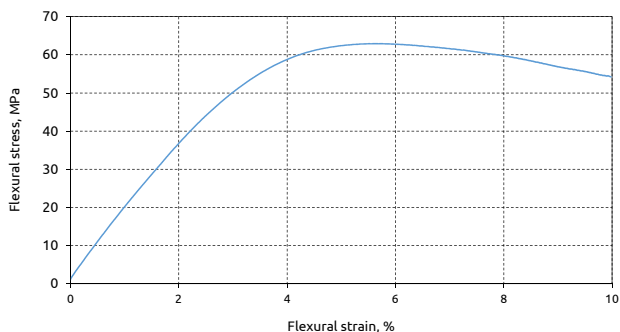
All specimens for various tests were printed using a DLP printer with 2.18 mW·cm⁻² light intensity and a UV spectrum peak of 406.3 nm. A layer height of 50 µm was used to print the specimens, and the exposure was set at 6.5 s. After printing, the specimens were washed with isopropanol for 10 min in a wash and cure station. Specimens were dried in the air for 30 min and then post-cured for 10 minutes under vacuum in Asiga Cure 1.5 UV curing station.

¹P. F. Jacobs, Rapid Prototyping and Manufacturing: Fundamentals of Stereolithography, McGraw-Hill, Inc., New York, NY, USA, 1993.

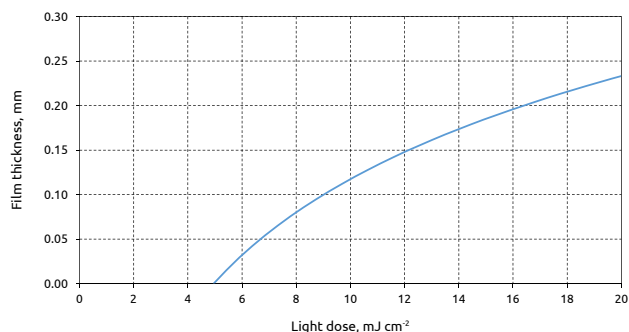
²These properties were measured right after printing, before post-curing.

³After post-curing, specimens were exposed to the specified conditions, and only then their properties were measured.

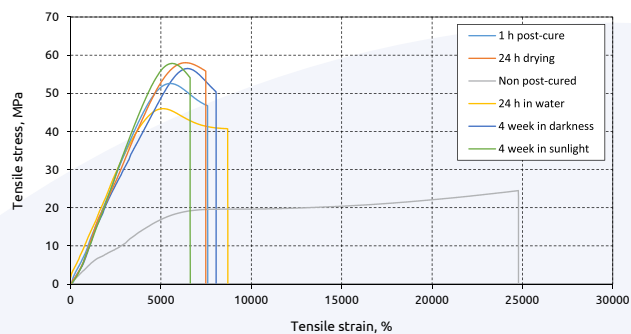
Flexural stress strain diagram of TRY-23



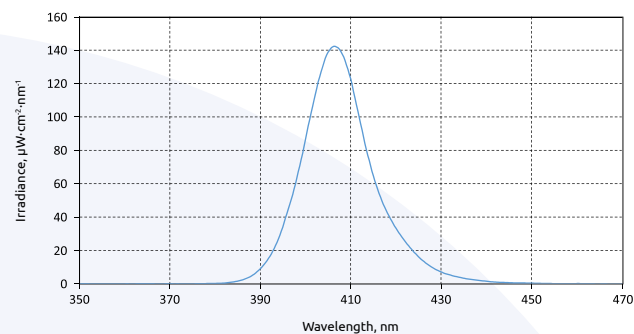
Working curve measurement of TRY-23 resin



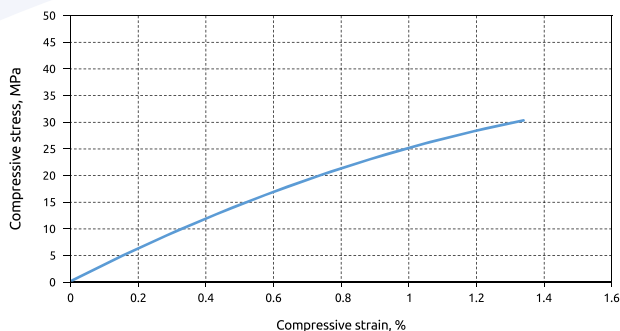
Tensile stress strain diagram of TRY-23



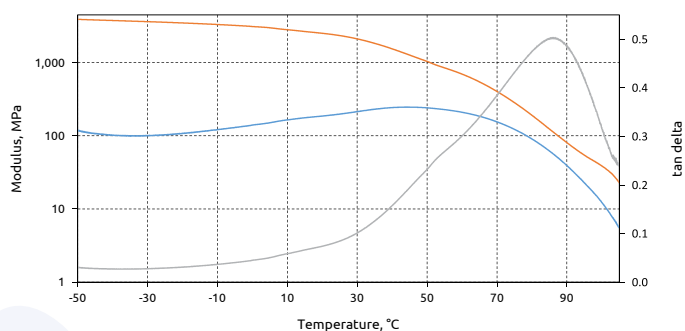
The spectrum of the DLP printer used for specimen preparation



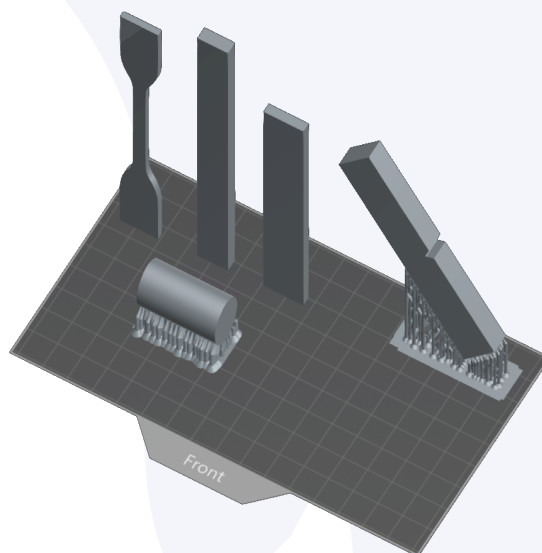
Compressive stress strain diagram of TRY-23



Dynamic Mechanical Analysis Graph of TRY-23



Tensile, Flex and Compression specimen orientation



TRY-23 is a Class I medical device under EU MDR 2017/745, CE marked for the manufacture of dental try-in models. Manufacturer: MB Labsamera, Draugystės st. 14, 51259 Kaunas, Lithuania.

This datasheet contains technical data only. Read the following documents before using this product:

- [Instructions for Use](#): intended purpose, contraindications, limits on patient contact time, clinical handling, and disinfection.
- [Application Guide](#): validated procedures for printing, cleaning, post-curing, and mechanical adjustment.
- [Safety Data Sheet](#): hazard classification, handling precautions, protective equipment, and first aid.

For use by dental professionals only.

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It is the user's responsibility to test the functional safety of the product in the field of application and to ensure a careful use of the product. Before using the product, we recommend our customers have a personal consultation with one of our contact persons at AmeraLabs to receive comprehensive information about this product's operating conditions and performance characteristics.

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