



HARZ Labs
MATERIALS FOR 3D PRINTING

HARZ Labs

Dental Model Ivory

Material Technical Data Sheet (TDS)

Version 1.2 / EN
19 February 2026

SECTION 1: DESCRIPTION AND APPLICATION

Dental Model Ivory is ivory colored resin. Designed for dental demonstration models and master-models. Tough, hard and has low shrinkage.

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result (Metric)
Color	-	Ivory (opaque)
Odor	-	Weak
Density	ASTM D1298	1.05-1.20 g/cm ³
Viscosity (25 °C)	ASTM D2393	500 - 1000 mPa·s

2.2 Mechanical properties

Tested property	Standard/Method	Result (Metric)
Flexural Strength	ASTM D790	125 ± 10 MPa
Flexural Modulus	ASTM D790	2300 ± 200 MPa
Ultimate Tensile Strength	ASTM D638	60 ± 5.0 MPa
Elongation at Break	ASTM D638	12.0 ± 1.0 %
Tensile Modulus	ASTM D638	700±100 MPa
Hardness	ASTM D2240	87 ± 2, Shore D
Heat Deflection Temperature @ 1.82 MPa	ASTM D648	47 ± 2°C
Heat Deflection Temperature @ 0.455 MPa	ASTM D648	62 ± 3°C
Charpy Impact (Unnotched)	ASTM D6110	25 ± 5 kJ/m ²

2.3 Special parameters

Tested property	Standard/Method	Result
Solubility (24h)	ASTM D3132	≤ 0.01 %
Sorption (24h)	ASTM D570	≤ 0.47 %
Free Monomer Extraction	ISO 10993	Passed
Cytotoxicity	ISO 10993	Passed
Irritation	ISO 10993	Passed
Sensitization	ISO 10993	Passed
Volume shrinkage	ASTM D955	0.2 %

The information above is believed to be accurate and represents the best information currently available to us. All test specimens were printed, cleaned, and post-processed per instructions provided by HARZ Labs company. Results provided here are representative of these processes and may vary if these established protocols are not followed. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall HARZ Labs LLC (ООО «ХАРЦ Лабс») be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if HARZ Labs LLC (ООО «ХАРЦ Лабс») has been advised of the possibility of such damages.