

HARZ Labs Dental Clear Form2

Material Technical Data Sheet (TDS)

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SECTION 1: DESCRIPTION AND APPLICATION

Dental Clear Form2 resin is PMMA-like hard clear resin designed for printing models, used in dental application, where transparency is one of the main issues. It can be demonstration models for operation planning, surgical guides.

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

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Tested property	Standard/Method	Result (Metric)
Color	-	Transparent
Odor	-	Weak
Density	ASTM D1298	$1.1 \pm 0.1 \text{g/cm}^3$
Viscosity (25 °C)	ASTM D2393	300 ± 150 mPa·s

2.2 Mechanical properties

Tested property	Standard/Method	Result (Metric)
Flexural Strength	ASTM D790	69.2 ± 3.7 MPa
Flexural Modulus	ASTM D790	1678 ± 157 MPa
Ultimate Tensile Strength	ASTM D638	37.0 ± 4.0 MPa
Elongation at Break	ASTM D638	6.4 ± 2.2 %
Hardness	ASTM D2240	80 ± 3 по Shore D
IZOD Impact (Unnotched)	ASTM D4812	$4.4 \pm 0.2 \text{ kJ/m}^2$

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

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 (OOO «XAPLĮ 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 (OOO «XAPLĮ Лабс») has been advised of the possibility of such damages.