



HARZ Labs Dental Yellow Clear Pro

Material Technical Data Sheet (TDS)

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SECTION 1: DESCRIPTION AND APPLICATION

Dental Yellow Clear Pro is a hard, PMMA-like material designed for printing surgical guides. Suitable for autoclave sterilization in plastic and metal modes. The printed parts could be disinfected by commonly used medicines (e.g. betadine, octenisept, 3% hydrogen peroxide solution, 2% chlorohexidine)

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result	
Color	-	Yellow (transparent)	
Odor	-	Weak	
Density	ASTM D1298	1.1 ± 0.1 g/cm ³	
Viscosity (25 °C)	ASTM D2393	600 ± 200 mPa·s	

2.2 Mechanical properties

Tested property	Standard/Method	Result
Flexural Strength	ASTM D790	108.0 ± 7.0 MPa
Flexural Modulus	ASTM D790	2500 ± 150 MPa
Ultimate Tensile Strength	ASTM D638	80.0 ± 5.0 MPa
Elongation at Break	ASTM D638	10 ± 3.0 %
Hardness	ASTM D2240	85 ± 3, Shore D
IZOD Impact (Unnotched)	ASTM D4812	4.1 ± 1.0 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 «XAPL 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 «XAPL Лабс») has been advised of the possibility of such damages.