



HARZ Labs
MATERIALS FOR 3D PRINTING

HARZ Labs

Dental Yellow Clear

Material Technical Data Sheet (TDS)

Version 1.2 / EN
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SECTION 1: DESCRIPTION AND APPLICATION

Dental Yellow Clear is a hard, PMMA-like material made from biocompatible raw materials. Designed for printing surgical guides.

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	110.0 ± 10.0 MPa
Flexural Modulus	ASTM D790	2100 ± 150 MPa
Ultimate Tensile Strength	ASTM D638	60.0 ± 5.0 MPa
Elongation at Break	ASTM D638	6.2 ± 3.1 %
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

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