



HARZ Labs
MATERIALS FOR 3D PRINTING

HARZ Labs Dental Model Beige

Material Technical Data Sheet (TDS)

Version 1.2 / EN
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SECTION 1: DESCRIPTION AND APPLICATION

Dental Model Beige resin is matte pale beige colored resin made of biocompatible raw materials. Designed for dental demonstration models and master-models. Tough, hard, stable to high temperatures during thermoforming aligners and it has low shrinkage.

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result (Metric)
Color	-	Beige (opaque)
Odor	-	Weak
Density	ASTM D1298	1.2 g/cm ³
Viscosity (25 °C)	ASTM D2393	1000 ± 300 mPa·s

2.2 Mechanical properties

Tested property	Standard/Method	Result (Metric)
Flexural Strength	ASTM D790	150 ± 15 MPa
Flexural Modulus	ASTM D790	3000 ± 200 MPa
Ultimate Tensile Strength	ASTM D638	70 ± 10 MPa
Elongation at Break	ASTM D638	7 ± 3 %
Tensile Modulus	ASTM D638	750 ± 50 MPa
Hardness	ASTM D2240	84 ± 2 Shore D
Heat Deflection Temperature @ 1.82 MPa	ASTM D648	72 ± 2°C
Heat Deflection Temperature @ 0.455 MPa	ASTM D648	89 ± 3°C
Charpy Impact (Unnotched)	ASTM D4812	6 ± 2 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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