



HARZ Labs
MATERIALS FOR 3D PRINTING

HARZ Labs Dental Peach

Material Technical Data Sheet (TDS)

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SECTION 1: DESCRIPTION AND APPLICATION

Dental Peach resin is matte pale orange colored resin made of biocompatible raw materials that used in UV-cured dental fillings. Designed for dental demonstration models and master-models. Tough, hard, stable to high temperatures during thermoforming aligners.

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result (Metric)
Color	-	Peach (opaque)
Odor	-	Odorless
Density	ASTM D1298	$1.1 \pm 0.1 \text{ g/cm}^3$
Viscosity (25 °C)	ASTM D2393	$575 \pm 225 \text{ mPa}\cdot\text{s}$

2.2 Mechanical properties

Tested property	Standard/Method	Result (Metric)
Flexural Strength	ASTM D790	$140 \pm 20 \text{ MPa}$
Flexural Modulus	ASTM D790	$2800 \pm 200 \text{ MPa}$
Ultimate Tensile Strength	ASTM D638	$80 \pm 10 \text{ MPa}$
Tensile Modulus	ASTM D638	$800 \pm 100 \text{ MPa}$
Elongation at Break	ASTM D638	$10 \pm 3 \%$
Hardness	ASTM D2240	79 ± 2 , Shore D
Charphy Impact (Unnotched)	ASTM D4812	$7 \pm 3 \text{ kJ/m}^2$
HDT @ 0.45 MPa	ASTM D648	$98 \pm 3 \text{ }^\circ\text{C}$
HDT @ 1.82 MPa	ASTM D648	$76 \pm 3 \text{ }^\circ\text{C}$

2.3 Special parameters

Tested property	Standard/Method	Result
Solubility (24h)	ASTM D3132	$\leq 0.01 \%$
Sorption (24h)	ASTM D570	$\leq 0.47 \%$
Free Monomer Extraction	ISO 10993	Passed
Cytotoxicity	ISO 10993	Passed
Irritation	ISO 10993	Passed
Sensitization	ISO 10993	Passed

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