



HARZ Labs
MATERIALS FOR 3D PRINTING

HARZ Labs Dental Tray V2

Material Technical Data Sheet (TDS)

Version 1.0 / EN
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SECTION 1: DESCRIPTION AND APPLICATION

Dental Tray is a material developed for printing customized dental trays used in impression taking.

SECTION 2: POSTPROCESSING

Printed parts should be rinsed with isopropyl alcohol. Flush cycles should be carried out until the parts are free of liquid material and dry. Manual cleaning with a soft brush dipped in isopropyl alcohol will help speed up the rinsing process. After that, it is recommended to blow the printed parts with compressed air or heat them at 70 °C for 10 min then cure in Otofash G171 for 3000 flashes.

SECTION 3: MATERIAL PROPERTIES

3.1 Characteristics of liquid

Tested property	Standard/Method	Result
Color	-	Blue (semitransparent)
Odor	-	Weak
Density	ASTM D1298	$1.1 \pm 0.1 \text{ g/sm}^3$
Viscosity (25 °C)	ASTM D2393	$450 \pm 200 \text{ mPa}\cdot\text{s}$

3.2 Mechanical properties

Tested property	Standard/Method	Result
Flexural Strength	ASTM D790	$120 \pm 20 \text{ MPa}$
Flexural Modulus	ASTM D790	$3000 \pm 200 \text{ MPa}$
Ultimate Tensile Strength	ASTM D638	$70 \pm 10 \text{ MPa}$
Elongation at Break	ASTM D638	$10.0 \pm 3.0 \%$
Hardness	ASTM D2240	$90 \pm 5 \text{ Shore D}$
Charpy Impact (Unnotched)	ASTM D4812	$25.0 \pm 3.0 \text{ kJ/m}^2$

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