



HARZ Labs
MATERIALS FOR 3D PRINTING

HARZ Labs

Dental Denture Base

Material Technical Data Sheet (TDS)

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SECTION 1: DESCRIPTION AND APPLICATION

Dental Denture Base is a biocompatible material of translucent pink color used for printing the bases of dentures.

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result (Metric)
Color	-	Pink (translucent)
Odor	-	Weak
Density	ASTM D1298	$1.1 \pm 0.1 \text{ g/cm}^3$
Viscosity (25 °C)	ASTM D2393	$2300 \pm 300 \text{ mPa}\cdot\text{s}$

2.2 Mechanical properties

Tested property	Standard/Method	Result (Metric)
Flexural Strength	ASTM D790	$135.0 \pm 5.0 \text{ MPa}$
Flexural Modulus	ASTM D790	$2500 \pm 150 \text{ MPa}$
Ultimate Tensile Strength	ASTM D638	$75.0 \pm 5.0 \text{ MPa}$
Elongation at Break	ASTM D638	$9 \pm 2.5 \%$
Tensile Modulus	ASTM D638	$950 \pm 50 \text{ MPa}$
Hardness	ASTM D2240	$90 \pm 3 \text{ Shore D}$
IZOD Impact (Unnotched)	ASTM D4812	$7 \pm 2.0 \text{ kJ/m}^2$

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