



**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 ± 0.1 g/cm <sup>3</sup>
Viscosity (25 °C)	ASTM D2393	2300 ± 300 mPa·s

### 2.2 Mechanical properties

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

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