HARZ Labs
Dental Bleach

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MATERIALS FOR 3D PRINTING

SECTION 1: DESCRIPTION AND APPLICATION

Dental Bleach is a composite resin for printing temporary crowns and bridges with Bleach color according Vita scale. It has increased endurance, abrasion resistance and well polishing. The color depends on postcuring time.

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result (Metric)
Color	-	Bleach (opaque)
Odor	-	Weak
Density	ASTM D1298	1.1 ± 0.1 g/cm^3
Viscosity (25 °C)	ASTM D2393	1100 ± 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	2250 ± 150 MPa
Ultimate Tensile Strength	ASTM D638	70.0 ± 5.0 MPa
Elongation at Break	ASTM D638	8.5 ± 2.5 %
Hardness	ASTM D2240	$84.5 \pm 3,5$ Shore D
IZOD Impact (Unnotched)	ASTM D4812	20.0 ± 2.0 kJ/m^2

2.3 Special parameters

Tested property	Standard/Method	Result
Solubility (24h)	ASTM D3132	≤ 0.01 %
Free Monomer Extraction	ISO 10993	Passed
Cytotoxicity	ISO 10993	Passed
Irritation	ISO 10993	Passed
Sensitization	ISO 10993	Passed