

HARZ Labs Dental Cast Pro

Material Technical Data Sheet (TDS)

Version 1.0 / EN 23 January 2024



SECTION 1: DESCRIPTION AND APPLICATION

Dental Cast Pro is intended for direct casting of dental implants such as metal crowns, bridges, clasp dentures.

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result
Color	-	Cherry (semitransparent)
Odor	-	Weak
Density	ASTM D1298	$1.1 \pm 0.1 \mathrm{g/cm^3}$
Viscosity (25 °C)	ASTM D2393	400 ± 200 mPa

2.2 Mechanical properties

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Tested property	Standard/Method	Result
Flexural Strength	ASTM D790	85.0 ± 10.0 MPa
Flexural Modulus	ASTM D790	1500 ± 300 MPa
Ultimate Tensile Strength	ASTM D638	50.0 ± 5.0 MPa
Elongation at Break	ASTM D638	12.0 ± 3.0 %
Hardness	ASTM D2240	86.0 ± 2.0 Shore D
IZOD Impact (Unnotched)	ASTM D4812	19.0 ± 5.0 kJ/m ²
CHARPY Impact	ASTM D6110	30.0 ± 5.0 kJ/m ²
(Unnotched)		

2.3 Special parameters

Tested property	Standard/Method	Result
Solubility (24h)	ASTM D3132	≤ 0.01 %
Ash content	ASTM D5630	< 0.1 %

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