



HARZ Labs
MATERIALS FOR 3D PRINTING

HARZ Labs Dental Model Light Grey

Material Technical Data Sheet (TDS)

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SECTION 1: DESCRIPTION AND APPLICATION

Dental Model Light Grey is matte light grey colored resin. Designed for dental demonstration models and master-models. Tough, hard, stable to high temperatures during thermoforming aligners and has low shrinkage.

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result (Metric)
Color	-	Light grey (opaque)
Odor	-	Weak
Density	ASTM D1298	1.05-1.20 g/cm ³
Viscosity (25 °C)	ASTM D2393	600 - 1200 mPa·s

2.2 Mechanical properties

Tested property	Standard/Method	Result (Metric)
Flexural Strength	ASTM D790	100 ± 10 MPa
Flexural Modulus	ASTM D790	2300 ± 200 MPa
Ultimate Tensile Strength	ASTM D638	75 ± 7.0 MPa
Elongation at Break	ASTM D638	8.0 ± 1.0 %
Tensile Modulus	ASTM D638	1200±120 MPa
Hardness	ASTM D2240	86 ± 2, Shore D
HDT @ 0.45 MPa	ASTM D648	82 ± 3 °C
HDT @ 1.82 MPa	ASTM D648	65 ± 1 °C
IZOD Impact (Unnotched)	ASTM D4812	4.8 ± 1.2 kJ/m ²

2.3 Special parameters

Tested property	Standard/Method	Result
Solubility (24h)	ASTM D3132	≤ 0.01 %
Sorption (24h)	ASTM D570	≤ 0.47 %
Free Monomer Extraction	ISO 10993	Passed
Cytotoxicity	ISO 10993	Passed
Irritation	ISO 10993	Passed
Sensitization	ISO 10993	Passed

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