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HARZ Labs
MATERIALS FOR 3D PRINTING

HARZ Labs Dental Peach Form 2

Material Technical Data Sheet (TDS)

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SECTION 1: DESCRIPTION AND APPLICATION

Dental Peach resin is matte pale orange colored resin made of biocompatible raw materials that used in UV-cured dental fillings. Designed for dental demonstration models and master-models. Tough, hard, stable to high temperatures during thermoforming aligners.

SECTION 2: MATERIAL PROPERTIES

2.1 Characteristics of liquid

Tested property	Standard/Method	Result (Metric)	Result (Imperial)
Color	-	Peach (opaque)	
Odor	-	Odorless	
Density	ASTM D1298	1.1 g/cm^3	0.0397 lb/in3
Viscosity (20 °C)	ASTM D2393	0.7 Pa·s	0.47 lb/ft·s

2.2 Mechanical properties

Tested property	Standard/Method	Result (Metric)	Result (Imperial)
Flexural Strength	ASTM D790	72.1 ± 2.3 MPa	10.5 ± 0.3 ksi
Flexural Modulus	ASTM D790	2024 ± 201 MPa	294 ± 29 ksi
Ultimate Tensile Strength	ASTM D638	41.2 ± 4.4 MPa	6.0 ± 0.6 ksi
Elongation at Break	ASTM D638	6.1 ± 2.1 %	
Hardness	ASTM D2240	80 ± 2, Shore D	
IZOD Impact (Unnotched)	ASTM D4812	5.5 ± 1.4 kJ/m^2	2.6 ± 0.7 ft-lb/in^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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