25% Permanent Crown Resin

The special resin material for dentistry is applicable to 3D printing of permanent crowns. This material features high toughness and ultra-high surface hardness. At 30-40℃, it can be cleaned thoroughly by ultrasonic cleaning with alcohol or isopropanol for 6 minutes. It is recommended to print under conditions 35-45° C.



MATERIAL STATUS

Characteristics	Good hardness high toughness
Applications	Permanent crowns
Appearance	A1,A2,A3,B1,OM2
Form	Resin
Processing method	(surface exposure molding)LCD (surface exposure molding)DLP

Room 302, Building 3, Guole Science and Technology Park, 1 Lirong Road, Dalang Subdistric, Longhua District, Shenzhen, Guangdong,China
Tel: +86 755 27615363
Email:
info@rayformtech.com
www.rayformtech.com

PHYSICAL PROPERTIES	Testing method	Typical value	
Density	ASTM D792	1.2-1.35	g/cm^3
Viscosity	ASTM D445	9000±2000	mPa•s
Hardness	ASTM D2240	87-91	ShoreD
MECHANICAL PROPERTIES			
Tensile Strength	ASTM D638	75-120	MPa
Elongation at Break	ASTM D638	2-10	%
Flexural Strength	ASTM D790	90-130	MPa
Flexural Modulus	ASTM D790	2000	MPa

*The above parameters are for reference only. The performance of cured materials will be affected by factors such as equipment, environment, parameter settings, post-processing methods, and testing methods, which will cause great differences. Please contact us if necessary

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