RF-IR-14 IBT Resin

IBT (Indirect Bonding Tray) Resin is a breakthrough light-curing resin designed for moderndigital orthodontics, providing a new indirect bonding solution of precise, efficient andnon-invasive. Through intelligent mechanical adaptation and biological functional desiqn,its innovative formula achieves sub-milimeter accuracy in the positioning of brackets,make it fits the complex dentition morphology perfectly, it can resist chemical corrosionand mechanical stress in clinical operations, providing seamless collaborative treatment experience for doctors and patients.



MATERIAL STATUS	
Applications	Indirect Bonding Tray
Appearance	Semi-transparent
Form	Resin
Processing method	(surface exposure molding)LCD (surface exposure molding)DLP
Characteristics	Biocompatible、Flexibility Easy to remove、Non-Stick

PHYSICAL PROPERTIES	Testing method	Typical value	
Density	ASTM D792	1.04-1.10	g/cm^3
Viscosity	ASTM D445	1000	mPa•s
Hardness	ASTM D2240	30	ShoreD
MECHANICAL PROPERTIES.			
Tensile Strength	ASTM D638	12	MPa
Elongation at Break	ASTM D638	140	%
Tensile modulus	ASTM D638	35	MPa
Solubility	ISO 20795-2	3.5	ug/mm^3

*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

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

PRINT PARAMETERS

Representative Machine	Exposure Time/s	Bottom Exposure Time/s	Bottom Layer Count	Lift Distance/mm	Lift Speed /mm •min^{-1}	Retract Speed /mm •min^{-1}
Phrozen sonic mini8K S	6	20	3	4+4	60+120	180+60
Elegoo saturn 4 Ultra	3.5	20	3	Default standard parameters of the device		
Elegoo saturn 3 Ultra	4.5	25	3	4+4	60+180	180+90
Creality HALOT-MAGE S	2	10	3	8+2	60+180	240+120
Anycubic Photon Mono 4 Ultra	4.5	25	3	4+4	90+120	240+90
Anycubic Photon Mono M7 Pro	3.5	20	3	4+4	60+120	180+60

*Post-Processing Procedure and Note

1.The model can be cleaned using isopropyl alcohol in the ultrasonic cleaning machine, and try not to use high-frequency shock or force brushing the model to avoid damage to the surface details of the model.

2.Thoroughly blow the model dry with a hair dryer or the like.

3.It is recommended to remove the support for model with supports first, and then post-cure treatment. If you remove the supports after it's been post-cured , it will easily cause damage to the contact surface of the support point.

4.For some occasions where certain toughness is required, you can choose to cure with UV lamp for 5 minutes. The printed parts should be kept in a cool dry place.

*Safety Precautions

1.Eye Contact: Immediately flush with plenty of clean water (under eye lids) for at least 20 minutes. Hold eyelids apart to ensure flushing. Washing within one minute of contact is essential to achieve maximum effectiveness. Seek medical attention immediately.

2.Skin Contact:Remove contaminated clothing and rinse contact area thoroughly with soap and water.

3.For additional information please see the Material Safety Data Sheet.

*Safety Precautions

Please store in a cool place below 25℃ Celsius, away from direct sunlight. Ordinary visible light may cause the resin to polymerize and gel.

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