SHINING 3D
DENTAL

SHINING DENT

3D Printing Material Catalogue

CX100

NEW

Provisional All-on-X

- → **Superior strength**
  Enhances resistance to fracture in high-stress applications
- → **Consistent durability**
  Ensures reliable performance for the entire provisional period
- → **Optimized for Immediate restorations**
  Delivering precision for all-on-x temporization
- → **Biocompatibility**
  Guarantees safety for clinical temporary use
- → **Available in four natural shades (BL, B1, A1, A2)**
  Provides exceptional aesthetics, boosting patient satisfaction

Resin printing consumption overview

Layer thickness / number		100 μm / 201 layers
Material consumption per set		14-17 g
Quantity per bottle(500g)		29-34 sets
Printing time	AccuFab-F1	21 min
	AccuFab-CEL	33 min

*Note: Each set includes two bases (upper&lower)

Properties and features

Properties	Value	Feature
Flexural strength	112 MPa	Exceptional strength and toughness, allowing confident bites with minimal risk of fracture during the provisional phase
Total fracture work	1934 J/m2	
Elongation at break (%)	5.5	
Flexural modulus	3410 MPa	

*Note: The above data meets ISO 178, ISO 20795, ISO 527 standards

CB11

NEW

Temporary Crown & Bridge, Denture Teeth

- → **FDA Class II 510(k) exempt** - Proven safe and ready for clinical use
- → **Flexural strength** – Meets the required standard for reliable support in crowns and bridges
- → **Minimal antagonism wear** – Protects opposing teeth and ensures dependable clinical performance
- → **Smooth surface & easy polishing** – Achieves natural high-gloss finish for excellent aesthetics
- → **Rich shade options (Vita A-D shades: A1/A2/A3/A3.5/B1/B2/B3)** – Provide personalized and natural results

Resin printing consumption overview

Dental applications		Denture Teeth	Single Crown
Layer thickness / number		50 μm / 144 layers	100 μm / 115 layers
Material consumption		11-16 g	0.8-1.2 g
Content per bottle(500 g)		31-45 sets	415-625 single units
Printing time	AccuFab-F1	16 min	13 min
	AccuFab-CEL	14 min	11 min
	AccuFab-L4D/L4K	46 min	33 min

*Note: The above data meets ISO 10477, ISO 4049,ISO 527- 1standards

Properties and features

Property	Value	Feature
Flexural strength	118 MPa	Durable and resilient, providing patients with confidence and comfort while chewing temporary crowns and bridges, with minimal risk of breakage
Chewing simulation test	> 5 years (1.2 million chewing cycles at a load of 200 N)	
Elongation at break (%)	6.59	
Sorption	< 35 μg/mm3	Exceptional stability ensures durable, worry-free use with no deformation over time
Solubility	< 5.5 μg/mm3	

*Note: The above data meets ISO 10477, ISO 4049,ISO 527- 1standards

CB12

NEW

Semi-Permanent Crown, Ceramic CB Resin

- → **Exceptional strength** – Reliable performance with high flexural strength
- → **Long-term stability** – Low water absorption prevents aging and deformation
- → **Fracture resistant** – Strong integrity ensures consistent performance in daily use
- → **Four natural shades (A1, A2, A3, B1)** - Realistic color for beautiful, natural results

Resin printing consumption overview

Dental applications		Single crown
Layer thickness / number		100 μm / 230 layers
Material consumption		0.8-1.2 g
Content per bottle(500 g)		415-625 single units
Printing time	AccuFab-F1	20 min
	AccuFab-CEL	28 min
	AccuFab-L4D/L4K	62 min

*Note: Single crown example on printed Tooth #16

Properties and features

Property	Value	Feature
Ultimate flexural strength	150 MPa	Provides strong, durable support for confident biting with minimal risk of fracture
Flexural modulus	4155 MPa	
Sorption	<35 μg/mm3	Exceptional stability for long-lasting, worry-free use
Solubility	<2 μg/mm3	

*Note: The above data meets ISO 10477, ISO 4049, ASTM F1980-2021, standards

TN11

Temporary Crown & Bridge

→ **Adequate flexural strength** - Ensures reliable daily use without noticeable deformation or discoloration

→ **Excellent morphology** - Ensures proper fit and function for patient comfort during temporary use

→ **Multi-color options (A1, A2, A3, B1)** - Enables natural shade matching, restoring aesthetics with lifelike results

→ **Biocompatible material** - Safe for intraoral use and suitable for clinical application

Resin printing consumption overview

Dental applications		Single Crown
Layer thickness / number		100 μm / 115 layers
Material consumption		0.8-1.2 g
Quantity per bottle(500 g)		415-625 single units
Printing time	AccuFab-F1	13 min
	AccuFab-CEL	11 min
	AccuFab-L4D/L4K	40 min

*Note: Single crown example on printed Tooth #16

Properties and features

Property	Value	**Feature**
Flexural strength	118 MPa	Strong and reliable, allowing patients to chew comfortably with little risk of breakage.
Sorption	< 40 μg/mm3	Exceptional stability ensures durable, worry-free use with no deformation over time
Solubility	< 7.5 μg/mm3	

*Note: The above data meets ISO 10477 standards

SH01

NEW

Splint Hard Resin

- → **High strength & flexibility** – Strong and resilient splints with reliable fracture resistance, ensure long-lasting stability
- → **Precision & longevity** – Accurate fit with controlled shrinkage for lasting performance
- → **Time-saving post-processing** – HyperClear system reduces polishing and shortens finishing time
- → **Biocompatible** – Safe formulation without TPO, MMA & THF-MA, suitable even for sensitive patients

■ Resin printing consumption overview

Dental applications		Splint
Layer thickness / number		100 μm / 633 layers
Material consumption per splint		15 - 16 g
Quantity per bottle(1000 g)		62 - 66 splints
Printing time	AccuFab-F1 (HC)	67 min
	AccuFab-CEL (HC)	91 min
	AccuFab-L4D/L4K	288 min

■ Properties and features

Properties	Value	**Feature**
Ultimate flexural strength	> 50 MPa	Durable and resilient, the material ensures reliable support under daily use while maintaining patient comfort
Flexural modulus	> 1500 MPa	
Fracture work	> 6000J/m2	
Elongation at break (%)	> 20	

*Note: The above data meets ISO 527, ISO 20795-1, ISO 20795-2 , ISO 20795-3 standards

SS01

NEW

Splint Soft Resin

→ **Excellent aesthetics and transparency with hyperclear system**
- Reduces polishing and shortens finishing time

→ **High flexural & tensile Strength with optimum elongation**
- Ensures durability and flexibility, minimizing risk of breakage

→ **Anti-aging performance tested** - Ensures long-lasting use with >98% accuracy and precise shrinkage control

→ **Biocompatible** - Safe formulation without TPO, MMA & THF-MA, suitable even for sensitive patients

Resin printing consumption overview

Dental applications		Splint
Layer thickness / number		100 μm / 330 layers
Material consumption per splints		15 - 18 g
Quantity per bottle(1000 g)		55 - 66 splints
Printing time	AccuFab-F1 (HC)	52 min
	AccuFab-CEL (HC)	65 min
	AccuFab-L4D/L4K	108 min

Properties and features

Property	Value	Feature
Ultimate flexural strength	> 5 MPa	Durable and resilient, the material ensures reliable support under daily use while maintaining patient comfort
Flexural modulus	> 200 MPa	
Tensile strength	> 23 MPa	
Elongation at break (%)	> 90	

*Note: The above data meets ISO 20795-2, ISO 10477, ISO4049 , ISO 527 standards

DT02

NEW

Try-In Denture Resin

- → **Biocompatible -** Optimized for comfortable and reliable intraoral use
- → **Durable strength and hardness -** Provides stable and long-lasting denture bases
- → **Smooth printing, easy handling -** Low viscosity formula reduces brittleness and simplifies processing
- → **Comfortable and aesthetic** - Good color stability, tasteless, and easy to clean for patient comfort
- → **Natural gingiva appearance** - Multi-color choices (Light Pink / Light Reddish Pink / Original) restore lifelike texture

Resin printing consumption overview

Dental application		Denture Base
Layer thickness / number		100 μm / 265 layers
Material consumption		38-42 g
Quantity per bottle(1000 g)		23 -26 sets
Printing time	AccuFab-F1	40 min
	AccuFab-CEL	35 min
	AccuFab-L4D/L4K	62 min

*Note: Example shown is a single maxillary denture base

Properties and features

Properties	Value	Feature
Flexural strength	98 MPa	Designed to withstand daily pressure, this material offers dependable strength that minimizes breakage while maintaining patient comfort
Flexural modulus	2800 MPa	
Impact strength	> 2.5 kJ/m2	
Elongation at break (%)	7	

*Note: The above data meets ISO 527 standards

SG01

Surgical Guide

- → **High accuracy & strength -** A rigid polymer with minimal flex maintains a precise fit and shape during surgery, ensuring the accuracy of implant placement
- → **High transparency -** Clear material allows accurate visualization for guide placement
- → **Efficient chairside fabrication -** Prints quickly and is easy to process
- → **Biocompatible** - Suitable for safe short-term use in the mouth

Resin printing consumption overview

Dental application		Surgical Guide
Layer thickness / number		100 μm / 176 layers
Material consumption		23-25 g
Quantity per bottle(1000 g)		40-43 models
Printing time	AccuFab-F1	20 min
	AccuFab-CEL	21 min
	AccuFab-L4D/L4K	31 min

*Note: Printed sample consists of two surgical guides

Properties and features

Properties	Value	Feature
Flexural strength	81 MPa	High strength ensures the material maintains its shape and stability during dental surgeries
Flexural modulus	2047 MPa	
Tensile modulus	1873 MPa	
Tensile strength	43 MPa	

*Note: The above data meets ISO 178, ISO 527 standards

TR01

Custom Tray Resin

- → **Perfect fit –** Adapts precisely to the patient's mouth for accurate impressions
- → **Strong & stable –** Resists bending or deformation during use
- → **Fast & easy –** Prints quickly and is simple to process
- → **Safe for patients** – Biocompatible for short-term intraoral use

Resin printing consumption overview

Dental application		Custom Tray
Layer thickness / number		100 μm / 246 layers
Material consumption		26-28 g
Quantity per bottle(1000 g)		35-38 models
Printing time	AccuFab-F1	21 min
	AccuFab-CEL	25 min
	AccuFab-L4D/L4K	55 min

*Note: Print sample of an upper jaw tray

Properties and features

Properties	Value	Feature
Flexural strength	93 MPa	High strength maintains shape under pressure for reliable performance
Flexural modulus	2895 MPa	
Tensile modulus	1981 MPa	
Tensile strength	45 MPa	

*Note: The above data meets ISO 527 standards

IBT

Indirect Bonding Tray Resin

→ **Accurate bracket placement -** Ensures precise transfer, reducing errors and improving treatment predictability

→ **Simplified fabrication -** Streamlines the workflow, saving chairside time and enhancing efficiency

→ **High material performance -** Provides strength and flexibility, preventing fracture and ensuring smooth handling

Resin printing consumption overview

Dental application		Indirect Bonding Tray
Layer thickness / number		75 μm / 155 layers
Material consumption		4.5-5.0 g
Quantity per bottle(1000 g)		222-250 models
Printing time	AccuFab-F1	17 min
	AccuFab-CEL	17 min
	AccuFab-L4D/L4K	37 min

*Note: Print sample is a single upper jaw IBT model

Properties and features

Properties	Value	Feature
Tensile modulus	>1000 MPa	High strength and flexibility ensure stability, durability, and resistance to cracking
Tensile strength	>20 MPa	
Elongation at break(%)	>30%	

*Note: The above data meets ISO 527 standards

GM12

Gingiva Mask Resin

- → **High toughness –** Provides durable gingiva masks that withstand clinical adjustments without deformation
- → **Strong tear resistance –** Resists tearing during seating and finishing, reducing the risk of breakage in daily use
- → **Realistic color –** Mimics natural gingiva for a lifelike and clinically reliable model appearance

Resin printing consumption overview

Dental application		Gingiva Mask
Layer thickness / number		50 μm / 173 layers
Material consumption		1-1.2 g
Quantity per bottle(1000 g)		833-1000 models
Printing time	AccuFab-F1	18 min
	AccuFab-CEL	16 min
	AccuFab-L4D/L4K	37 min

*Note: The printed sample is a gingiva mask for tooth #16, it not applied to the Fabwash

Properties and features

Properties	Value	Feature
Elongation at break (%)	110%	Provides excellent flexibility and tear resistance for reliable clinical use

*Note: The above data meets ISO 527 standards

W20

NEW

Washable Resin

→ **Ideal for dental models –** Suitable for printing both restorative and orthodontic models

→ **Fast & easy cleaning –** Rinse in 1 minute with running water, no chemicals needed

→ **Accurate & stable models –** Ensure reliable and accurate model printing with a smooth, non-sticky surface finish

Resin printing consumption overview

Dental application		Separated Crown & Bridge Models
Layer thickness / number		100 μm / 233 layers
Material consumption		12-13 g
Quantity per bottle(1000 g)		71-76 models
Printing time	AccuFab-F1	27 min
	AccuFab-CEL	20 min
	AccuFab-L4D/L4K	43 min

*Note: Print sample is a single upper jaw IBT model

Properties and features

Properties	Value	Feature
Flexural strength	> 85 MPa	High mechanical strength ensures the model resists bending and deformation during handling and clinical use
Flexural modulus	> 2000 MPa	
Tensile modulus	> 1800 MPa	
Elongation at break (%)	> 7.5%	

*Note: The above data meets ISO 527 standards

OD02

Ortho Model Resin

- → **Heat-resistant -** Keeps models stable and accurate even after film pressing
- → **High hardness -** Durable models that resist wear during repeated handling
- → **High detail accuracy -** The printed material accurately reproduces dental anatomy, ensuring the reliability of orthodontic aligners and models

Resin printing consumption overview

Dental application		Ortho Model
Layer thickness / number		100 μm / 170 layers
Material consumption		31-32 g
Quantity per bottle(1000 g)		30-32 models
Printing time	AccuFab-F1	16 min
	AccuFab-CEL	14 min
	AccuFab-L4D/L4K	27 min

*Note: Sample print includes both upper and lower jaw

Properties and features

Properties	Value	Feature
Flexural strength	108 MPa	Excellent mechanical performance with high strength and stiffness for durable and precise dental models
Flexural modulus	3217 MPa	
Tensile modulus	2477 MPa	
Tensile strength	55 MPa	

*Note: The above data meets ISO 527 standards

DM03

Model Resin

→ **High toughness & excellent printability -** Ensures accurate reproduction of implant models with smooth and efficient printing performance

→ **Pressure and wear resistant -** Provides outstanding durability during seating and adjustment, preventing cracks or deformation

→ **Grey color for detail visibility -** Highlights fine details and contrast for effortless model inspection with clear margin line

Resin printing consumption overview

Dental application		Implant Model
Layer thickness / number		100 μm / 208 layers
Material consumption		30-31 g
Quantity per bottle(1000 g)		30-32 sets
Printing time	AccuFab-F1	26 min
	AccuFab-CEL	24 min
	AccuFab-L4D/L4K	44 min

*Note: Each set includes upper jaw & lower jaw

Properties and features

Properties	Value	Feature
Flexural strength	54 MPa	Offers high strength, stability, and durability, ensuring accurate implant models that resist deformation and fracture during seating and finishing
Flexural modulus	1429 MPa	
Tensile modulus	1021 MPa	
Elongation at break (%)	35%	

*Note: The above data meets ISO 178, ISO 527 standards

DM12

Model Resin

- → **High toughness & excellent printability -** Ensures highly accurate crown and bridge models with smooth and efficient printing, suitable for complex restorations
- → **Superior strength & storage stability -** Enhanced hardness and mechanical properties maintain model integrity and dimensional consistency during long-term storage
- → **Yellow shade for margin visibility -** Clearly shows margin lines and adjacent contours for easy finishing and inspection

Resin printing consumption overview

Dental application		Implant Model
Layer thickness / number		100 μm / 208 layers
Material consumption		31-33 g
Quantity per bottle(1000 g)		30-32 sets
Printing time	AccuFab-F1	24 min
	AccuFab-CEL	18 min
	AccuFab-L4D/L4K	47 min

*Note: Each set includes two bases

Properties and features

Properties	Value	Feature
Flexural strength	52 MPa	Delivers high flexural and tensile strength, ensuring durable and accurate models
Flexural modulus	1537 MPa	
Tensile modulus	1404 MPa	
Elongation at break (%)	11%	

*Note: The above data meets ISO 178, ISO 527 standards

DC12

Dental Casting Resin for Crowns, Bridges, and Partial Frameworks

- → **High detail accuracy** – Ensures precise dental models for reliable restorations
- → **Clean burnout** – Burns completely without residue, suitable for casting
- → **Easy trimming** – Simple to shape and finish, saving lab time

Resin printing consumption overview

Dental application		Crowns, Bridges, Partial Frameworks
Layer thickness / number		50 μm / 416 layers
Material consumption		1.3- 1.5g
Quantity per bottle(1000 g)		666-769 models
Printing time	AccuFab-F1	35 min
	AccuFab-CEL	42 min
	AccuFab-L4D/L4K	102 min

*Note: The print sample is a lower jaw bridge from teeth #2 to #6

Properties and features

Properties	Value	Feature
Tensile modulus	1693 MPa	High strength and rigidity ensure the material resists bending and stretching, providing stable and reliable models for dental restorations
Tensile strength	40 MPa	
Flexural modulus	1469 MPa	

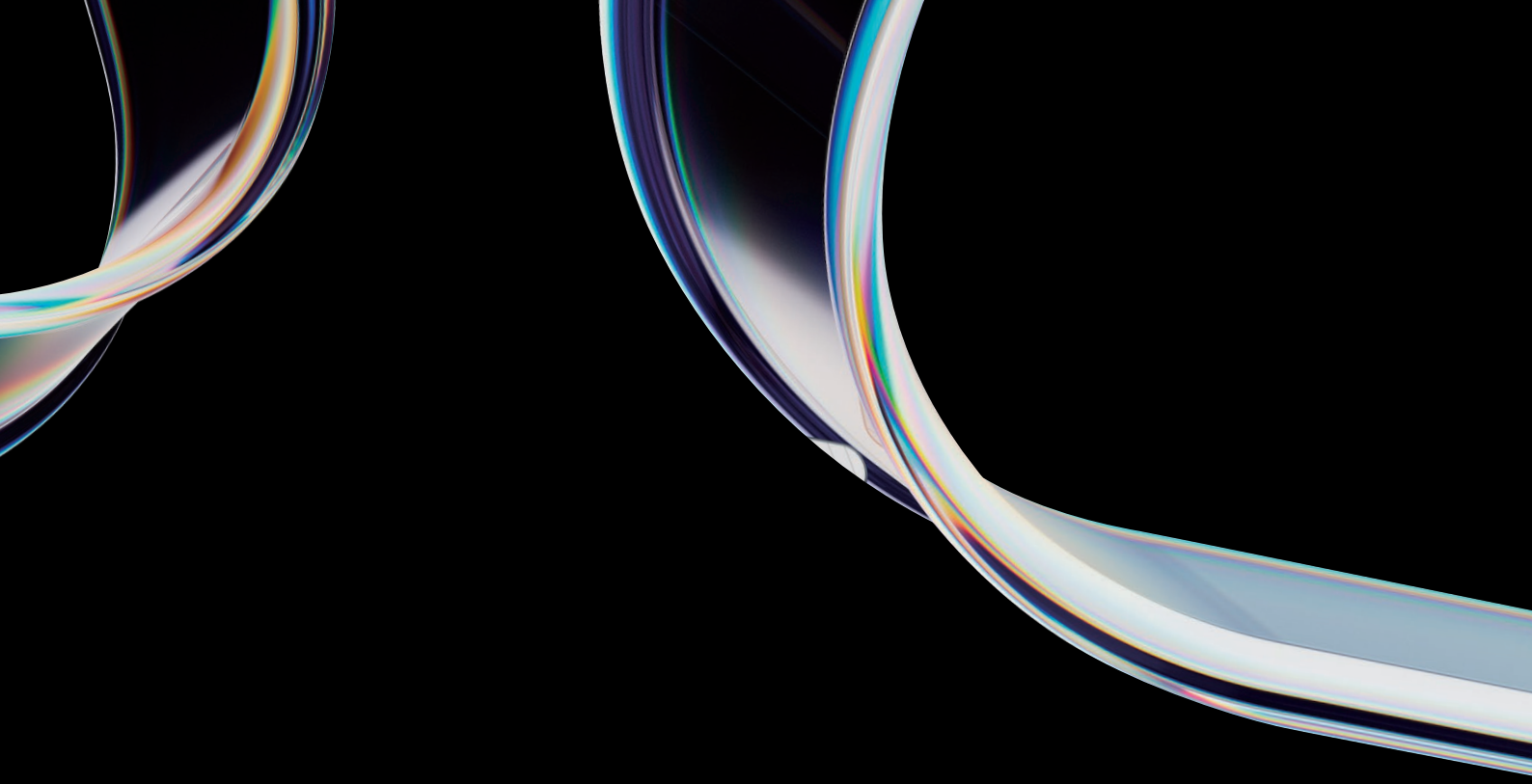
*Note: The above data meets ISO 527 , ISO 178 standards

Certificate

Dental materials		CE	ROHS	REACH	FDA	Biocompatibility
Try-In Resin(All on x)	CX100	class I	✓	✓	class I	✓
Temporary Crown&Bridge	CB11	-	✓	✓	class II	✓
Ceramic CB Resin	CB12	class I	✓	✓	-	✓
Try-In Resin	TN11	class I	✓	✓	class I	✓
Splint Hard Resin	SH01	class I	✓	✓	class I	✓
Splint Soft Resin	SS01	class I	✓	✓	class I	✓
Denture Base Resin	DT02	class I	✓	✓	-	✓
Surgical Guide Resin	SG01	class I	✓	✓	class I	✓
Tray Resin	TR01	class I	✓	✓	class I	✓
Indirect Bonding Tray Resin	IBT	class I	✓	✓	class I	✓
Gingiva Mask Resin	GM12	-	✓	✓	-	✓
Washable Model Resin	W20	-	✓	✓	class I	✓
Orthodontic Model Resin	OD02	-	✓	✓	class I	✓
Model Resin	DM03	-	✓	✓	class I	✓
Model Resin	DM12	-	✓	✓	class I	✓
Cast Resin	DC12	-	✓	✓	-	✓

Delivery & Storage

Net Weight	**1 KG / 0.5KG**
Storage Temperature	5℃-35℃
Storage Humidity	5% ~ 90%RH
Working Temperature	20℃-30℃
Working Humidity	30-60%RH
Bottle Size （mm）	D90*225 / D67*192
Package Size （mm）	125*125*265 / 95*95*240
Gross Weight	1.1 KG / 0.6KG



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