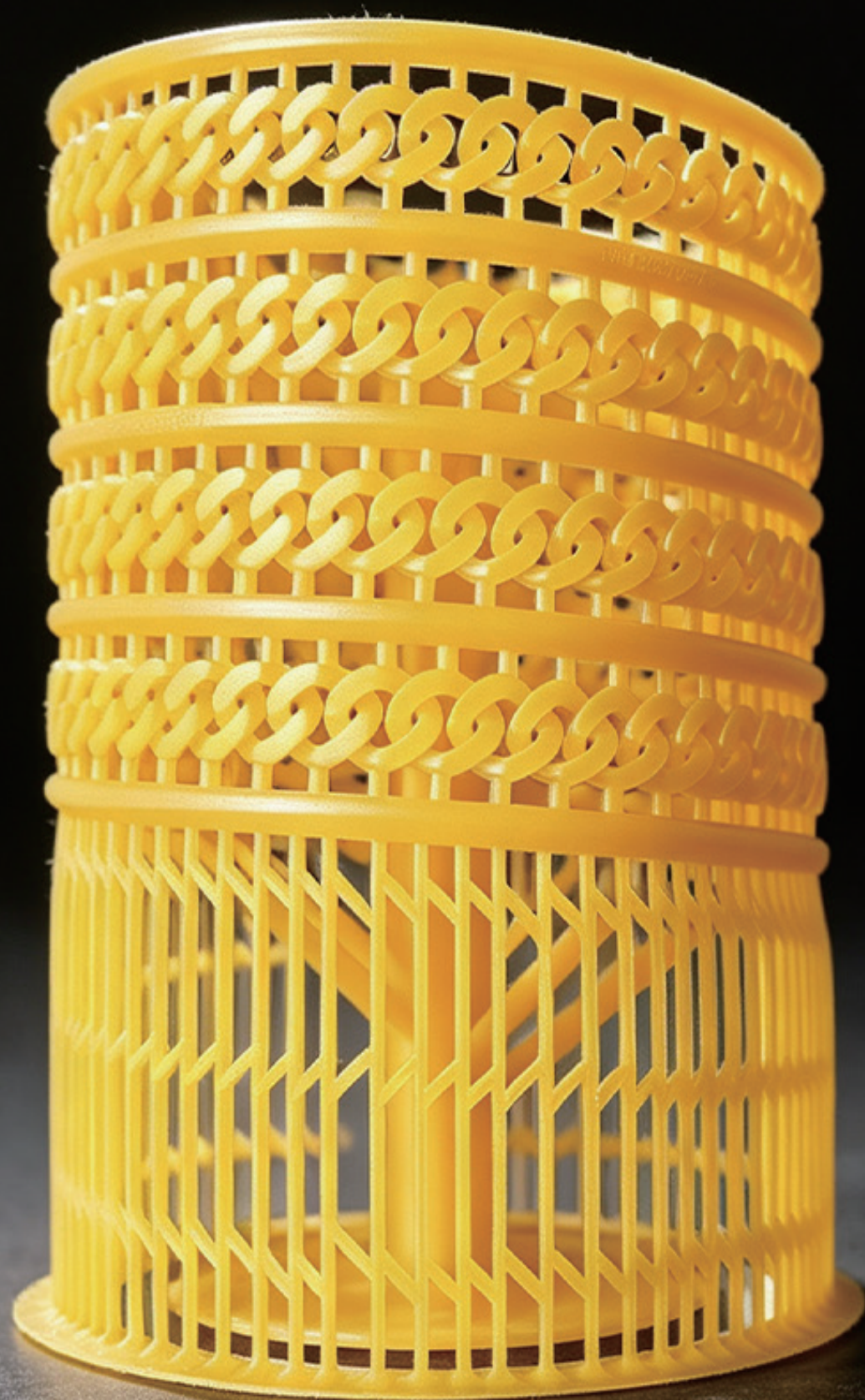


ApexRay

3D Printed Resin Jewelry Product Catalog





Yellow Wax Casting Resin AR-J577

ApexRay Yellow Wax is a high-performance castable 3D resin for jewelry. It features clean ash-free burnout, low shrinkage (<0.2%), and stable printing. Compatible with standard gypsum investments, it delivers precise details and reliable castings at a lower cost.

ADVANTAGES

1.Ash-Free Burnout

Complete combustion, no residual ash, reduces casting defects.

2.Low Shrinkage & High Precision

Shrinkage <0.2%, captures fine details and micro-settings.

3.Stable Printing

Good fluidity, no stacking, reliable complex prints.

4.Standard Investment Compatible

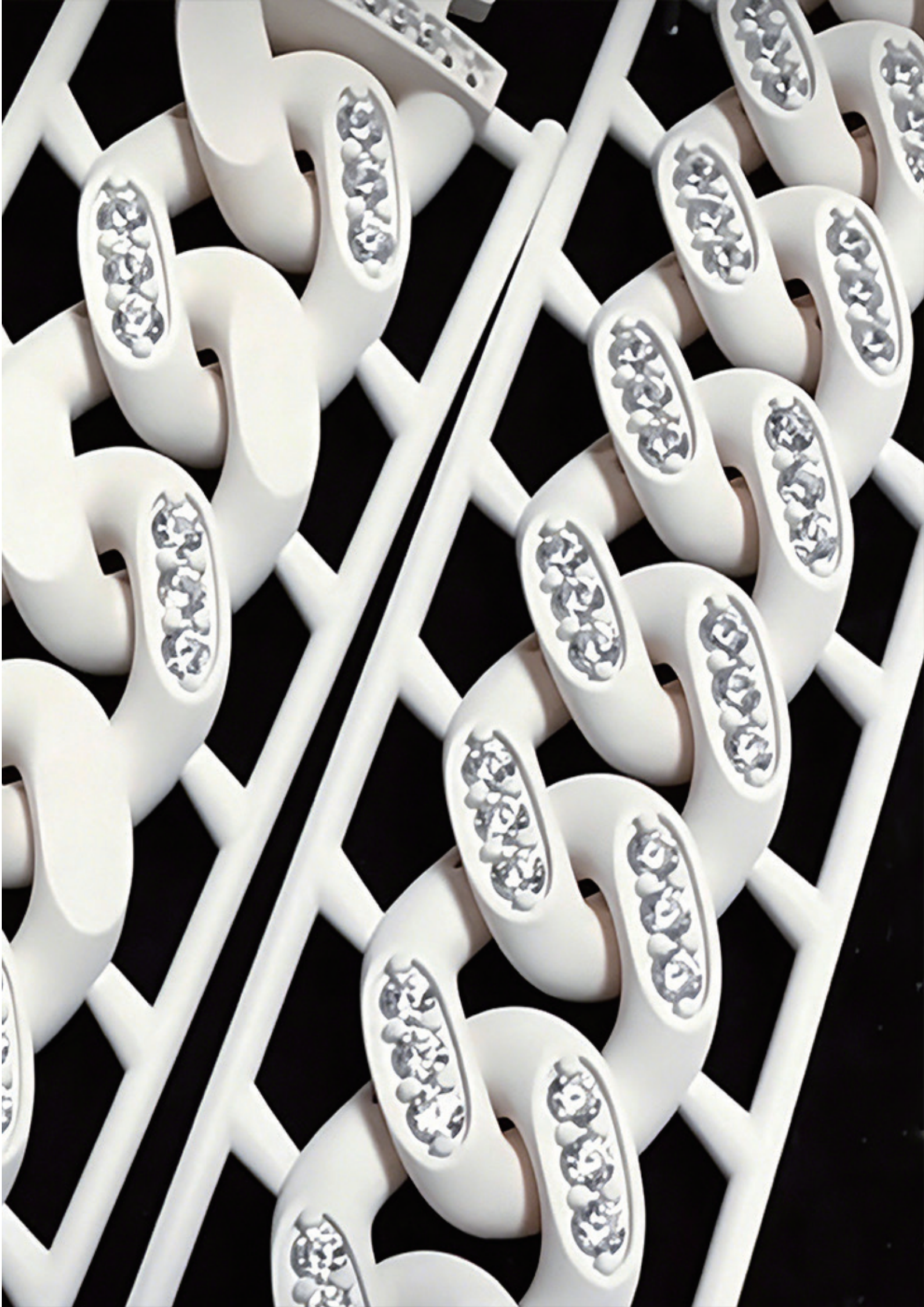
Works with regular gypsum, no costly specialty materials.

5.Cost-Effective

Lowers jewelry casting costs without compromising quality.

BASIC PERFORMANCE TABLE

Test Items	unit	Test Standards	values
Bending strength	MPa	ASTM D790	70
Flexural modulus	MPa	ASTM D790	1100MPa
Hardness	Shore D	ASTM D2240	50D
Viscosity	MPa·s-25℃	ISO 2555:2018	100~200
Linear shrinkage rate	%	ASTM D955	0.4



White Wax Casting Resin AR-J608

High-precision 3D printing resin for jewelry casting, featuring clean ash-free burnout, low shrinkage, and excellent detail reproduction. Works with standard gypsum investments for reliable, smooth castings.

ADVANTAGES

1.High Precision & Fine Detail

Captures intricate jewelry textures, engravings, and integrated chain links with zero clogging.

2.Clean & Ash-Free Burnout

Wax-based formula burns out completely, preventing casting defects like porosity.

3.Smooth & Flexible Prints

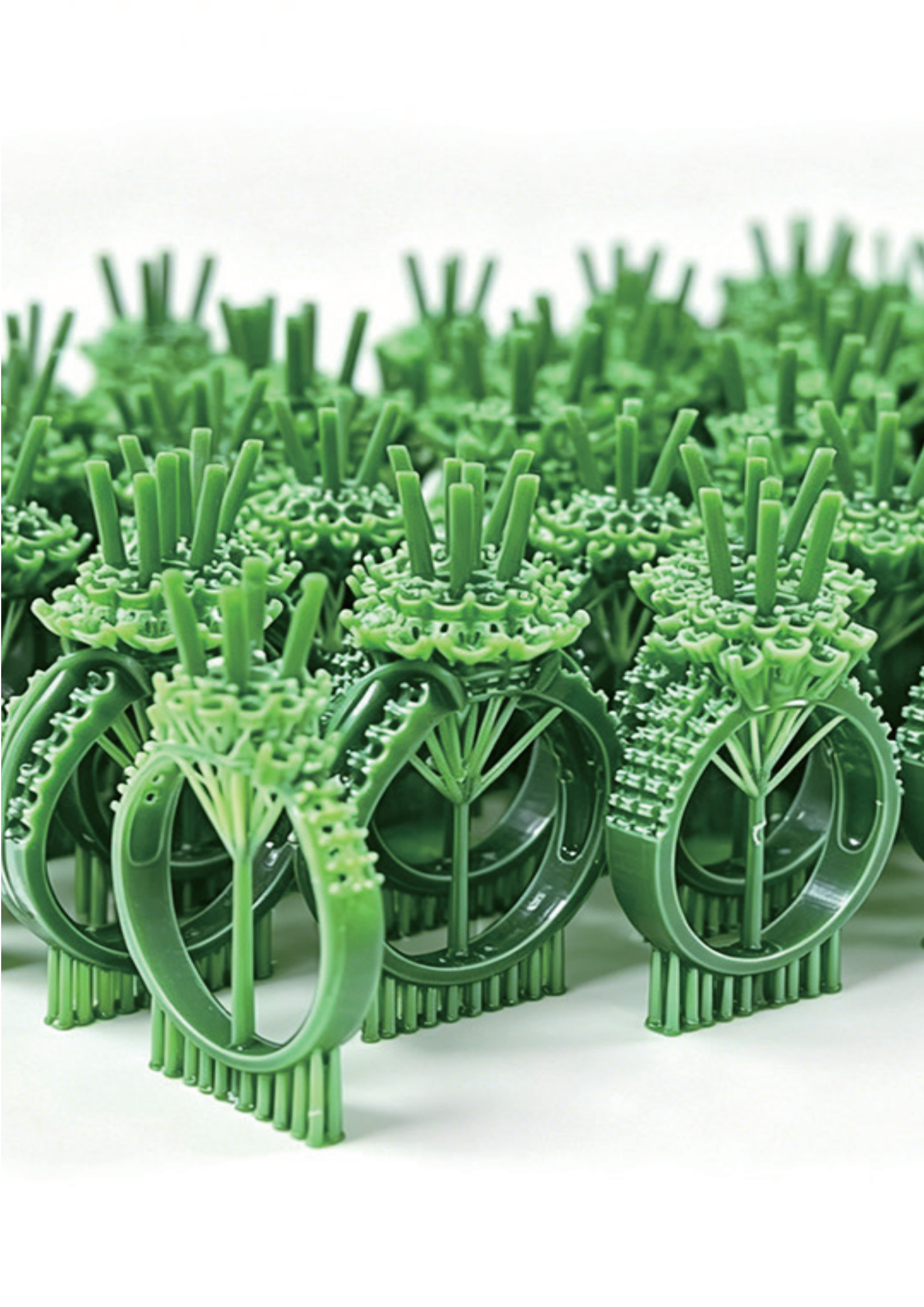
Excellent articulation for integrated chains, perfect for mass jewelry production.

4.Ultra-Smooth Surface Finish

Delivers premium results, especially on oxygen-permeable DLP systems.

BASIC PERFORMANCE TABLE

Test Items	unit	Test Standards	values
Bending strength	MPa	ASTM D790	70
Flexural modulus	MPa	ASTM D790	1600MPa
Hardness	Shore D	ASTM D2240	55D
Viscosity	MPa·s-25℃	ISO 2555:2018	150~250
Linear shrinkage rate	%	ASTM D955	0.7



High Wax Casting Resin

Dark Green AR-J729

An all-in-one, high-wax jewelry casting resin delivering precision, clean burnout, and consistent results for all jewelry designs.

ADVANTAGES

1.High Wax Content (>80%)

Near traditional wax performance for stable burnout, fewer cracks and porosity.

2.Ultra-Low Shrinkage

≤0.25% shrinkage with ±0.02mm ring tolerance, ensuring accurate, deformation-free parts.

3.Fine Detail Precision

Captures 0.1mm resolution and 0.25mm filigree for crisp, sharp details in hollow and complex designs.

4.Clean, High-Yield Casting

<0.5% ash residue for clean castings; supports easy peeling and >95% batch production yield.

BASIC PERFORMANCE TABLE

Test Items	unit	Test Standards	values
Bending strength	MPa	ASTM D790	70
Flexural modulus	MPa	ASTM D790	1500MPa
Hardness	Shore D	ASTM D2240	70D
Viscosity	MPa·s-25℃	ISO 2555:2018	100~200
Linear shrinkage rate	%	ASTM D955	0.8



Filigree Casting Resin AR-J806

ApexRay filigree casting resin is optimized for hollow filigree jewelry models. It achieves clean support removal, non- distort movable structures, full dewax burnout and balanced toughness, reducing casting defects and scrap loss.

ADVANTAGES

1.Non- Trace Filigree Support

Optimized for hollow filigree models. Supports can be peeled off without residual marks. Minimum support: DLP 0. 12mm, LCD 0. 2mm.

2.Non- Stick Snap- Fit Structure

Smooth and neat model contour. Movable filigree structures are resistant to distortion after curing.

3.Residue- Free Complete Burnout

Sufficient combustion during dewaxing process. Minimize casting defects like air holes and sand inclusions, improve precious- metal casting yield

4.Excellent Anti- Brittle Toughness

Well- balanced hardness and toughness. Tiny connectors resist cracking, offering higher fault tolerance and lower scrap rate.

BASIC PERFORMANCE TABLE

Test Items	unit	Test Standards	values
Bending strength	MPa	ASTM D790	70
Flexural modulus	MPa	ASTM D790	1600MPa
Hardness	Shore D	ASTM D2240	80D
Viscosity	MPa·s-25°C	ISO 2555:2018	150~250
Linear shrinkage rate	%	ASTM D955	1



ThickCast Resin AR-J807

Industrial grade 90% wax-filled photopolymer resin specially designed for lost wax casting thick-wall 3D printed models. Balanced strength and toughness, delivers ultra-smooth printed surface with crisp tiny details. It burns out completely with zero ash residue, supports co-casting with traditional wax in the same furnace and fits standard casting plaster directly.

ADVANTAGES

1.90% High Wax Composition

Complete burnout after heating, leaves no ash inside molds to avoid casting defects.

2.Optimized for Thick-Wall Patterns

Perfect balance of rigidity and flexibility, prevents breakage and distortion of thick structures.

3.High Definition Smooth Output

Fine layer resolution brings flawless surface and precise miniature details, less post-processing work.

4.Wide Process Compatibility

Directly use common casting plaster, can be cast together with conventional wax without equipment modification.

BASIC PERFORMANCE TABLE

Test Items	unit	Test Standards	values
Bending strength	MPa	ASTM D790	90
Flexural modulus	MPa	ASTM D790	1600MPa
Hardness	Shore D	ASTM D2240	70D
Viscosity	MPa·s-25°C	ISO 2555:2018	150~250
Linear shrinkage rate	%	ASTM D955	1



High-temperature Pressure Casting Resin AR-J300

A high-temperature, dimensionally stable 3D printing resin engineered for jewelry silicone pressure molding, delivering high precision, high hardness, and easy demolding without cracking.

ADVANTAGES

1.High Temperature Resistance

Rated for 200°C heat resistance, ideal for jewelry silicone pressure molding processes.

2.Balanced Hardness & Toughness

90D+ toughness prevents chipping during demolding while maintaining rigidity to avoid mold deformation.

3.High Precision & Stability

±0.02mm dimensional accuracy with zero warping, for sharp, clean details like stone settings.

4.Mold-Friendly Performance

Smooth, non-stick surface ensures easy demolding and compatibility with common jewelry silicone molds.

BASIC PERFORMANCE TABLE

Test Items	unit	Test Standards	values
Bending strength	MPa	ASTM D790	70
Flexural modulus	MPa	ASTM D790	1100MPa
Hardness	Shore D	ASTM D2240	50D
Viscosity	MPa·s-25°C	ISO 2555:2018	100~200
Linear shrinkage rate	%	ASTM D955	0.4