



3D-BG

Customer's Guide to TYPES OF RESIN

&

CARE OF RESIN PRODUCTS

Overview - Types of Resin

Here is a **Customer's Resin Product Guide** to help you choose the right material for your project—and care for their resin products afterward.

CUSTOMER'S GUIDE TO RESIN PRODUCTS

Material Types & Product Care

Choosing the Right Resin for Your Product

Each resin has unique characteristics affect how it looks, feels, and functions. Here's a breakdown of the **main resin types**, their **properties**, and the **best uses**:

1. Standard Resin

- **Finish:** Smooth, matte
 - **Strength:** Moderate
 - **Detail:** High
 - **Best for:** Decorative models, prototypes, figurines
 - **Pros:** Affordable, sharp detail
 - **Cons:** Brittle, not impact-resistant
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2. Standard Resin Plus

- **Finish:** Smooth with more durability
 - **Strength:** Moderate to strong
 - **Best for:** Display items, parts with light use
 - **Pros:** Improved toughness over standard
 - **Cons:** Still can crack under pressure
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3. Standard Resin V2

- **Finish:** Smooth, fine detail
 - **Strength:** Moderate with improved dimensional stability
 - **Best for:** Precision parts, small figurines
 - **Pros:** Better consistency and accuracy
 - **Cons:** Similar brittleness to other standard resins
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4. ABS-Like Resin Pro 2

- **Finish:** Smooth, almost plastic-like
 - **Strength:** High
 - **Flexibility:** Moderate
 - **Best for:** Functional parts, mechanical models, cases
 - **Pros:** Tough, durable, impact-resistant
 - **Cons:** Slightly slower to cure, costs more
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5. ABS-Like Resin V2

- **Finish:** Matte, slightly flexible
 - **Strength:** High
 - **Flexibility:** Medium-high
 - **Best for:** Snap-fit parts, wearable items, low-impact tools
 - **Pros:** Durable with soft-touch feel
 - **Cons:** May deform under high heat
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6. Water-Washable Resin 2.0

- **Finish:** Smooth, clean
- **Ease of Use:** Very high
- **Best for:** Models that need easy cleanup
- **Pros:** Clean with water instead of alcohol, less odor
- **Cons:** Less durable, not for outdoor use

7. Ultra-Tough Resin

- **Finish:** Slightly flexible, rubbery feel
 - **Strength:** Very high
 - **Best for:** Drop-resistant parts, joints, hinges
 - **Pros:** Impact and flex-resistant
 - **Cons:** Slightly lower detail sharpness
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8. 14K Resin

- **Finish:** Ultra-smooth, hyper-detailed
 - **Detail Resolution:** Extremely high
 - **Best for:** Jewelry masters, miniatures, high-detail collectibles
 - **Pros:** Sharpest detail with high resolution
 - **Cons:** Not made for functional stress
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9. Texture Resin

- **Finish:** Matte with surface texture
 - **Best for:** Gaming terrain, anti-glare surfaces
 - **Pros:** Hides fingerprints, diffuses light
 - **Cons:** Slightly softer detail, limited colors
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10. High-Clear Resin

- **Finish:** Transparent/glassy
 - **Best for:** Light covers, lenses, display windows
 - **Pros:** Beautiful clarity when polished or coated
 - **Cons:** Prone to yellowing over time, needs UV coating
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11. Plant-Based Resin 2.0

- **Finish:** Smooth, low-gloss
 - **Eco-Friendliness:** High
 - **Best for:** Toys, decor, and eco-conscious products
 - **Pros:** Low odor, bio-sourced, safer
 - **Cons:** Slightly brittle, not as tough as ABS-like
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12. High-Temp Resin

- **Finish:** Durable and stable
 - **Heat Resistance:** High (up to ~150°C)
 - **Best for:** Hot liquid tools, molds, industrial prototypes
 - **Pros:** Withstands heat without warping
 - **Cons:** Brittle under impact
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13. Bio Resin

- **Finish:** Smooth, skin-safe style
 - **Best for:** Cosmetic models, jewelry prototypes, toys
 - **Pros:** Non-toxic feel, low odor
 - **Cons:** Not medically certified
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14. DIY Color Mixing Resin

- **Finish:** Varies based on mix
 - **Customization:** High
 - **Best for:** Custom-colored models, branding
 - **Pros:** Unique colors, mix to match themes
 - **Cons:** Can affect curing if over-pigmented
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Product Care Guide for Resin Items

Once your customers receive their resin product, the following care instructions will help extend its life and maintain its appearance.

General Care

Do	Don't
Wipe with a soft, dry cloth or a damp cloth if needed	Leave in direct sunlight for extended periods
Store in a cool, dry place	Submerge in water (unless made from water-washable resin)
Handle with care – especially thin/delicate parts	Use near high heat (unless High-Temp Resin)

Cleaning Tips

- **Dusting:** Use a soft microfiber or compressed air.
- **Stains/Grime:** Use mild soap and water (for water-washable resin) or a damp cloth for others.
- **Polishing (High Clear Resin only):**
 - Wet sand with fine grit (1000–3000+)
 - Finish with a plastic polish or clear acrylic spray

UV & Heat Warning

- Resin products can **warp or yellow** with prolonged UV or heat exposure.
- Keep out of:

- Car dashboards
- Direct window sun
- Hot outdoor environments

Handling Moving Parts or Joints

- For **functional or mechanical parts**, do not force movement.
- For items with joints (hinges, clips), apply light **lubrication** (e.g., dry silicone spray) if needed.

Sustainability & Disposal

- Resin parts should not be thrown in regular recycling.
- Unused or broken parts should be disposed of at **hazardous material collection sites** where available.
- **Plant-based** and **bio-resins** offer reduced environmental impact but are not biodegradable.