Samtop Pantone Color Matching Guide

Why Color Matching Matters in Mixed-Material Displays

Even with the same Pantone code, metal, acrylic, resin, and PU absorb and reflect light differently. Consistency is key to maintain brand identity across multi-material POP and VM displays.

Samtop's 5-Step Pantone Matching Workflow

1. Pantone Code Lock-In: Client provides Pantone or physical swatch. We define gloss level and lighting context.

2. Material-Specific Swatching: Sample production for metal, acrylic, resin, and PU.

3. Visual + Instrumental Check: Side-by-side comparison under 5000K lightbox and Delta-E reading.

4. Golden Sample Approval: Swatch set locked as production standard.

5. Batch-to-Batch QC: Each batch validated visually and by instrument before shipping.

Color Matching Challenges by Material

- Metal: Risk of glare - use matte or satin top coat.

- Acrylic: Light-passing properties affect hue - pigment control needed.

- Resin: May appear glossier - requires UV coating for tone stability.

- PU/Fabric: Absorbs light - silk-screen overlays or dyeing recommended.

Case Study Snapshot: Pantone 2955C Across Resin, Acrylic, Metal

Challenge: 3 different materials reflecting the same blue inconsistently.

Solution: Adjusted pigment, applied matte powder coat, added resin sealant.

Result: <1.2 Delta-E variance confirmed, brand approved, 200+ units delivered.

Tip: Always Approve Swatches Under Consistent Lighting

Use a 5000K neutral lightbox for approval. Natural light changes perception. Always compare materials side-by-side.

Contact Us for Multi-Material Color Matching

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We help brands lock color across acrylic, resin, metal, PU, and more.