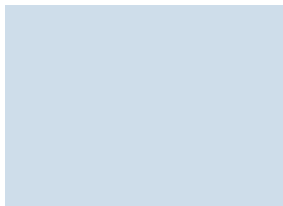
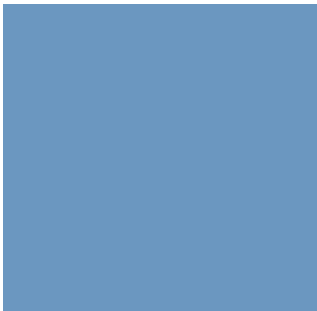
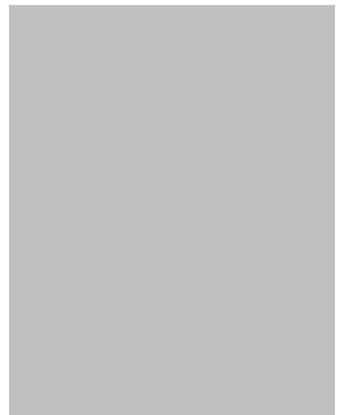


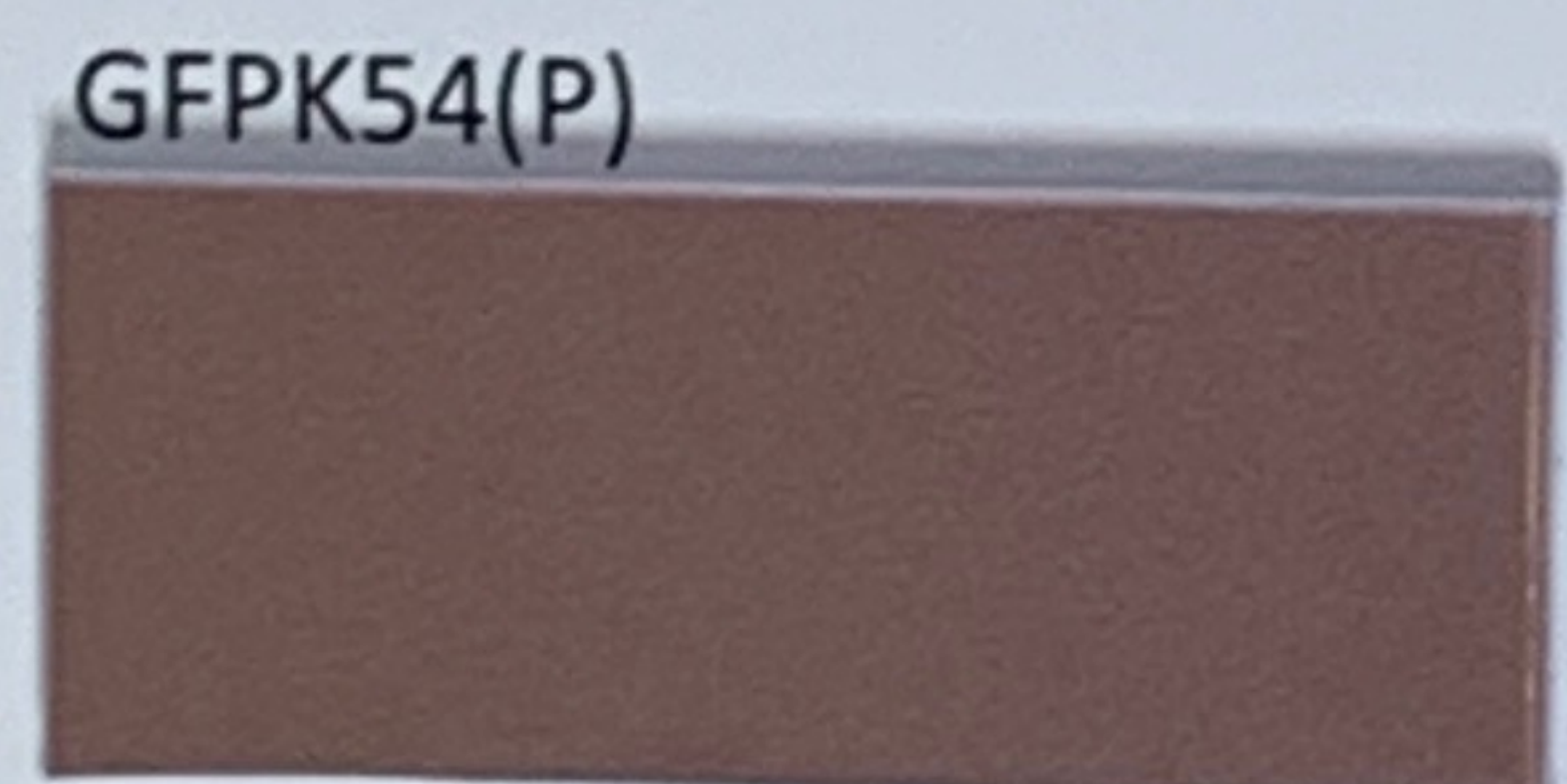
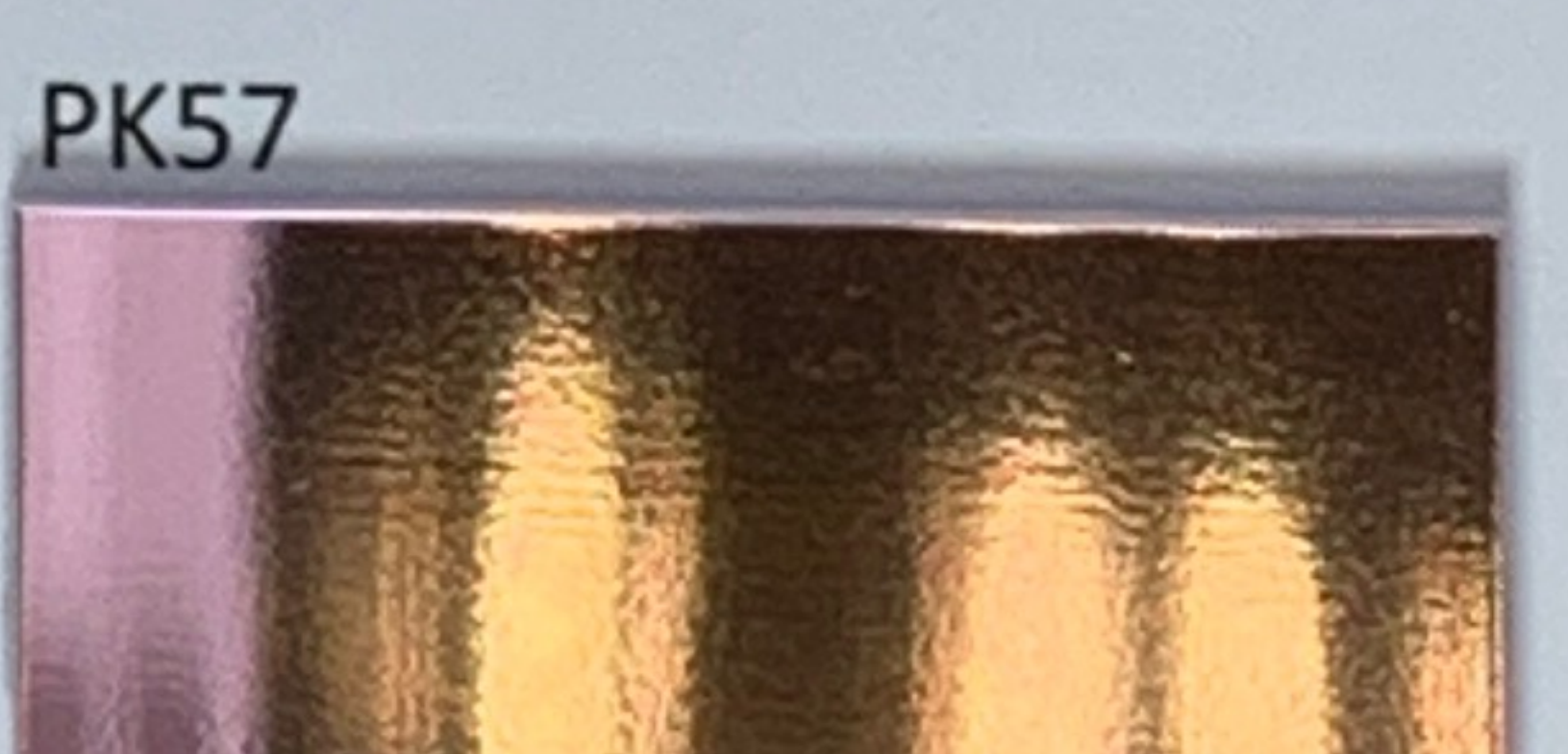
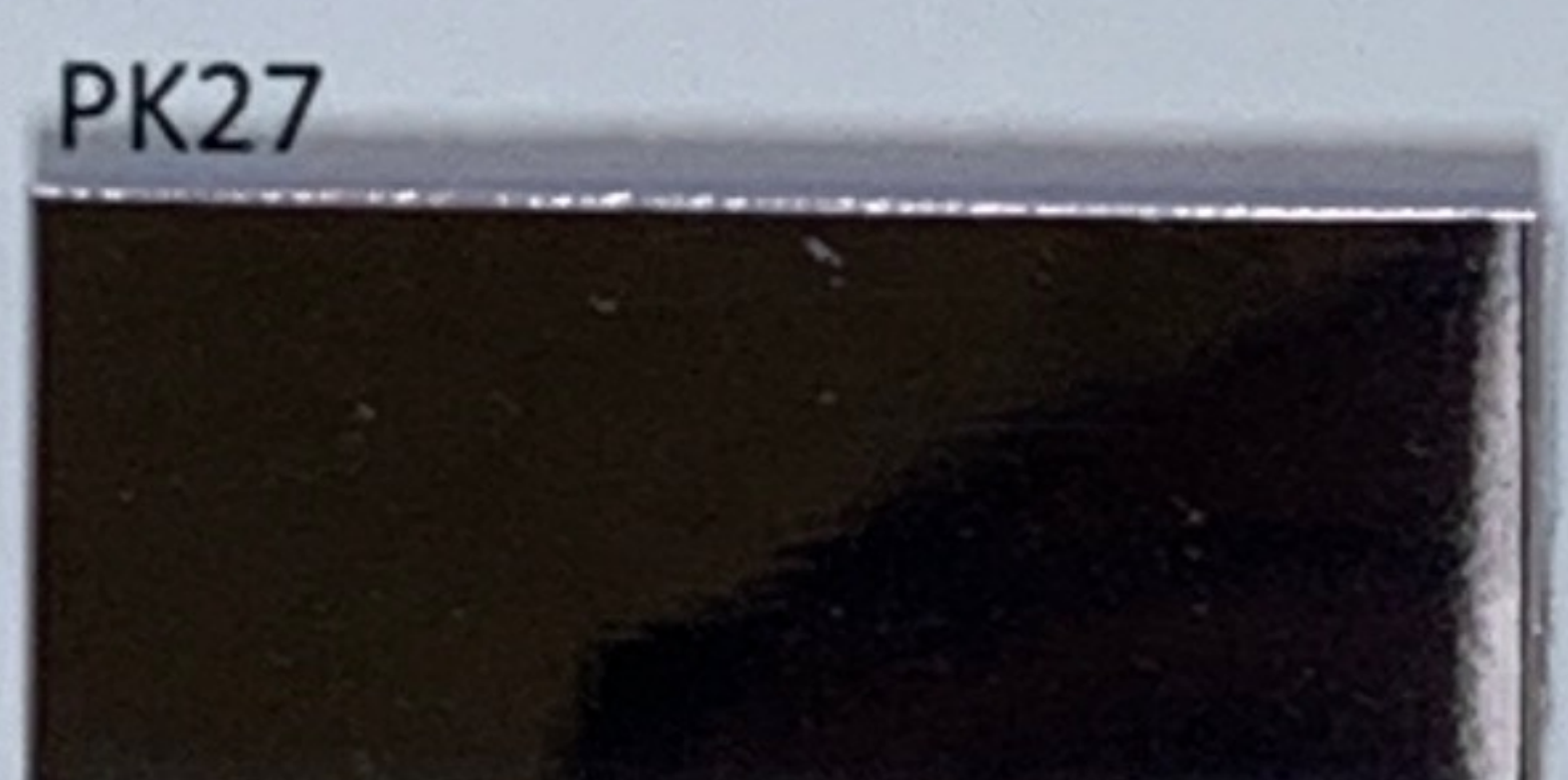
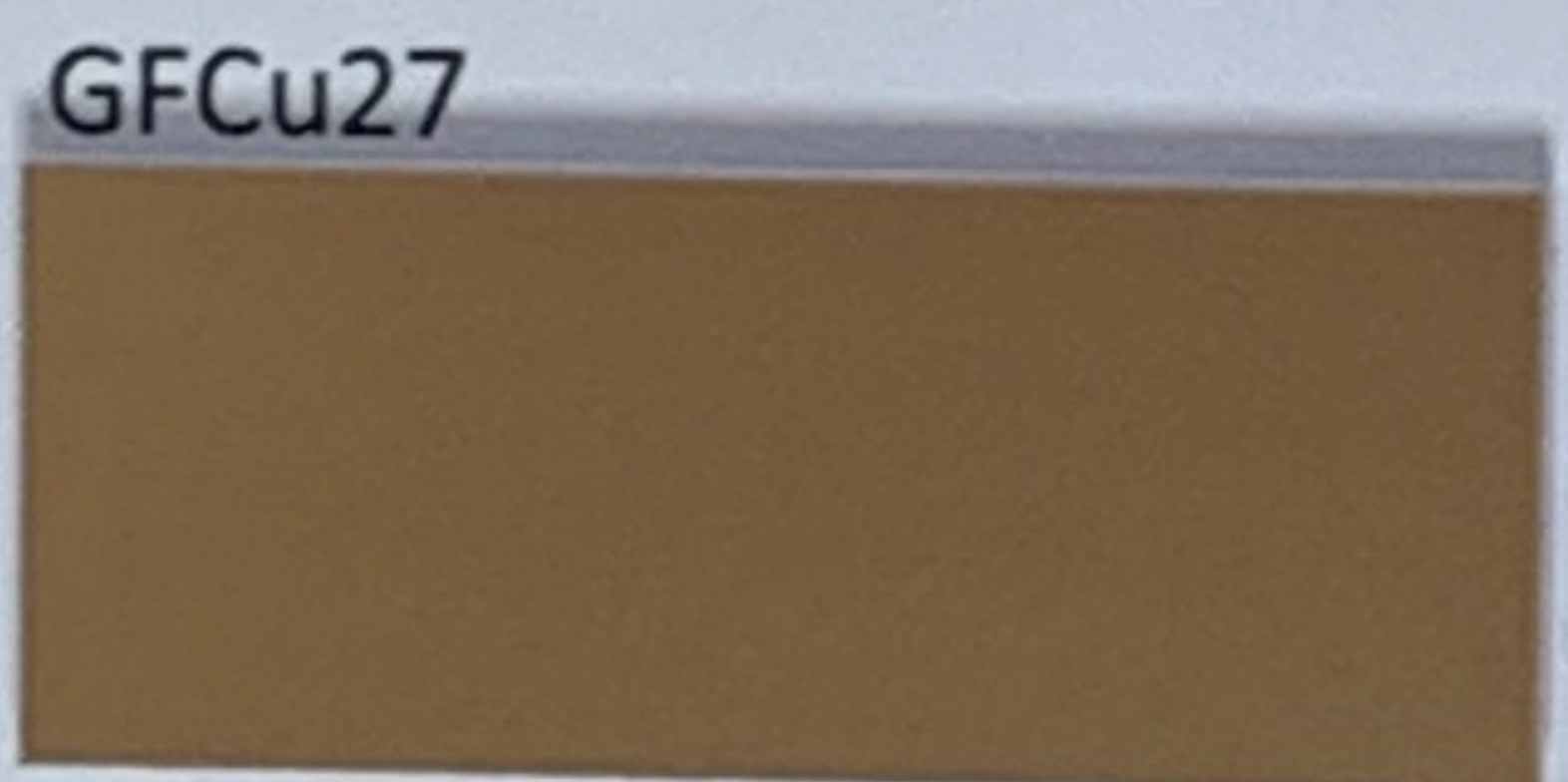
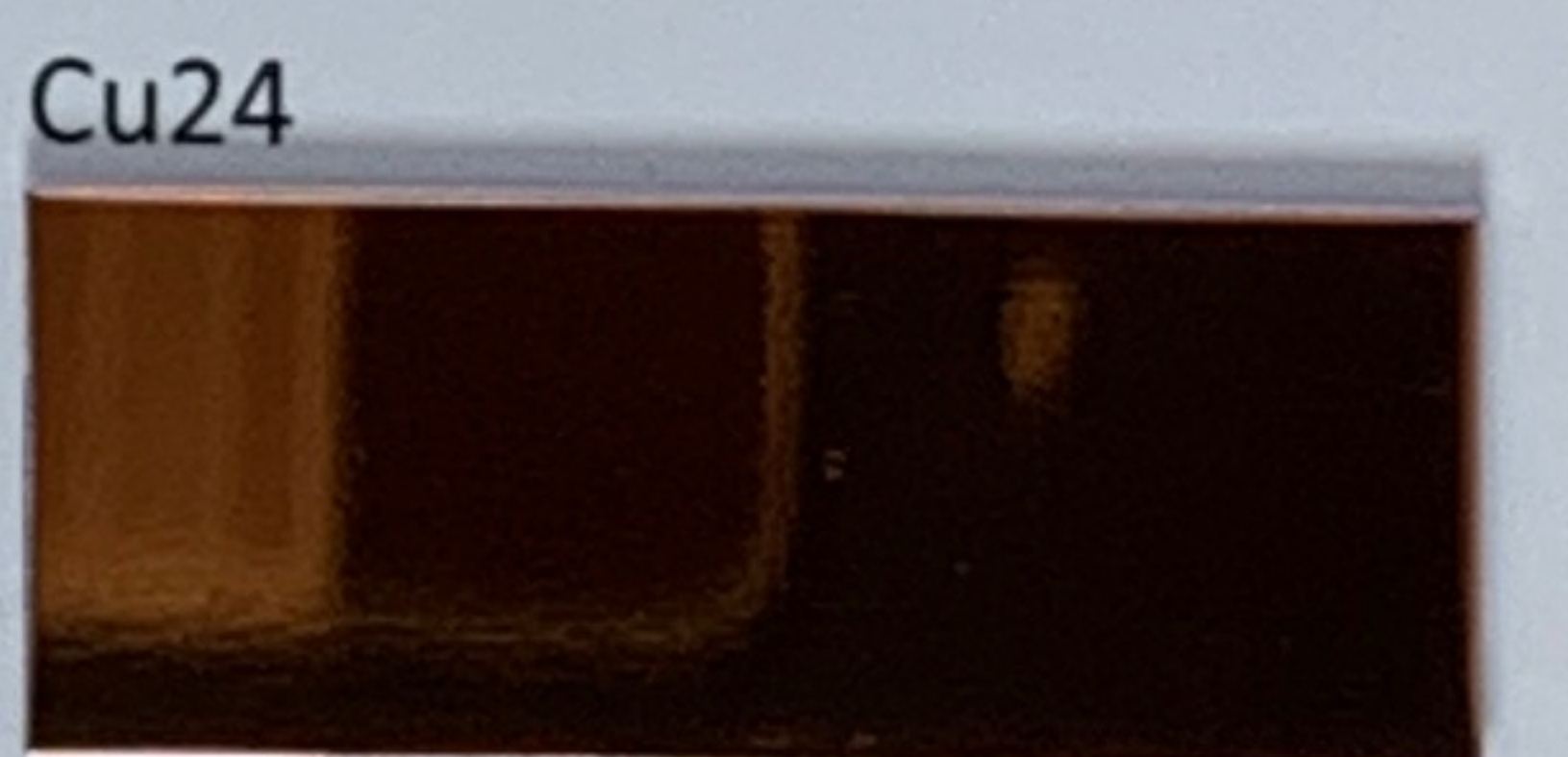
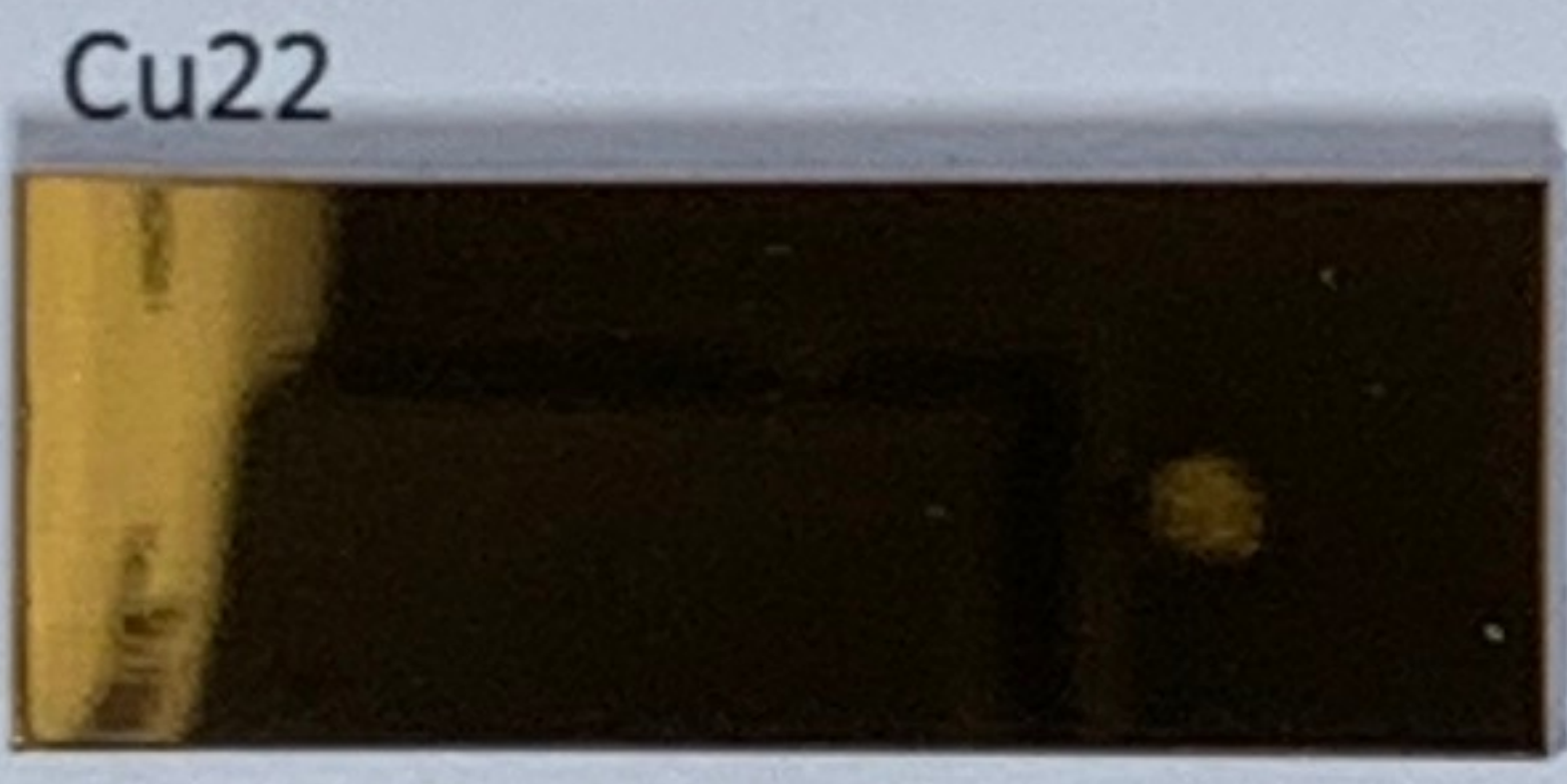
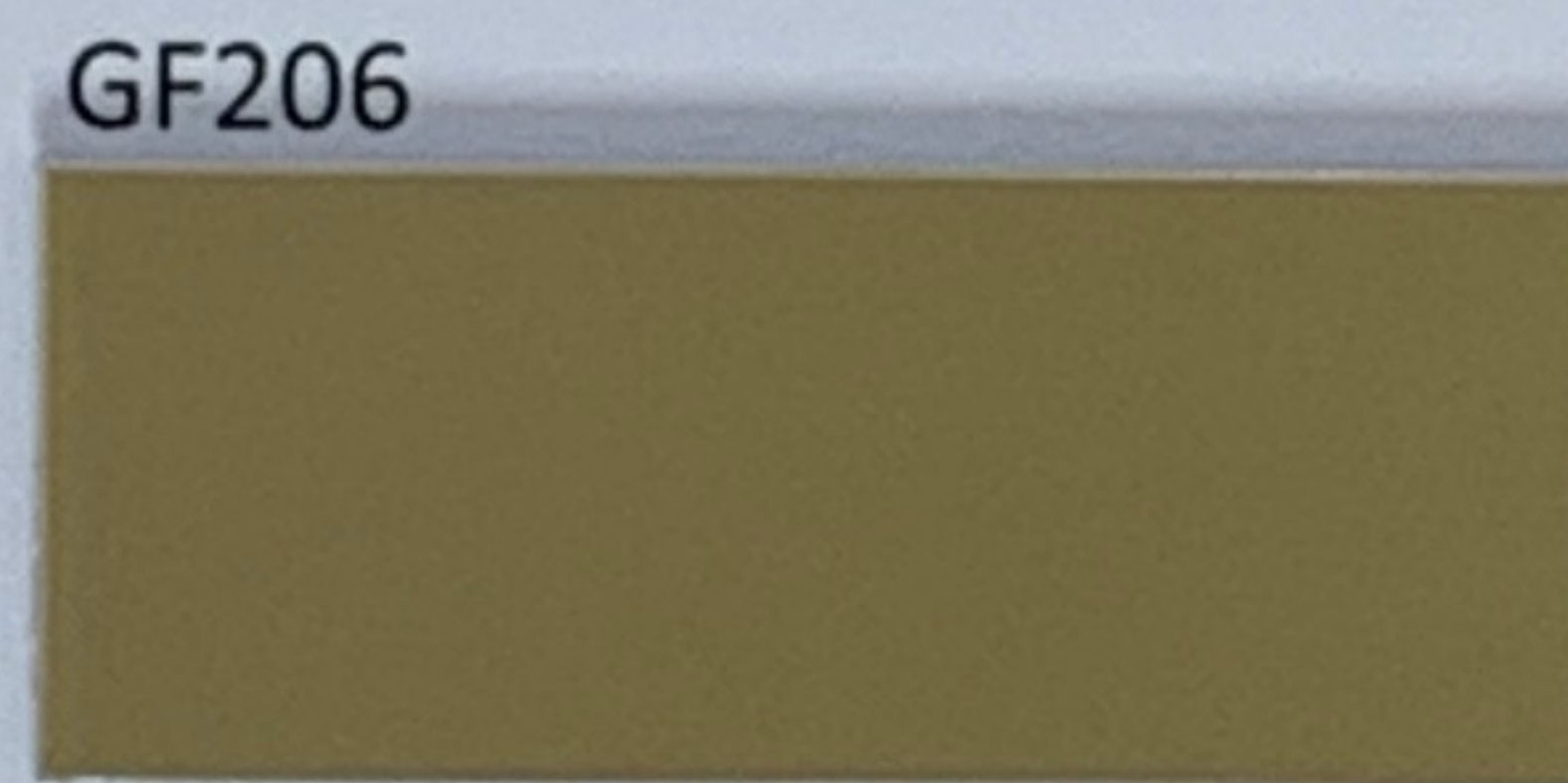
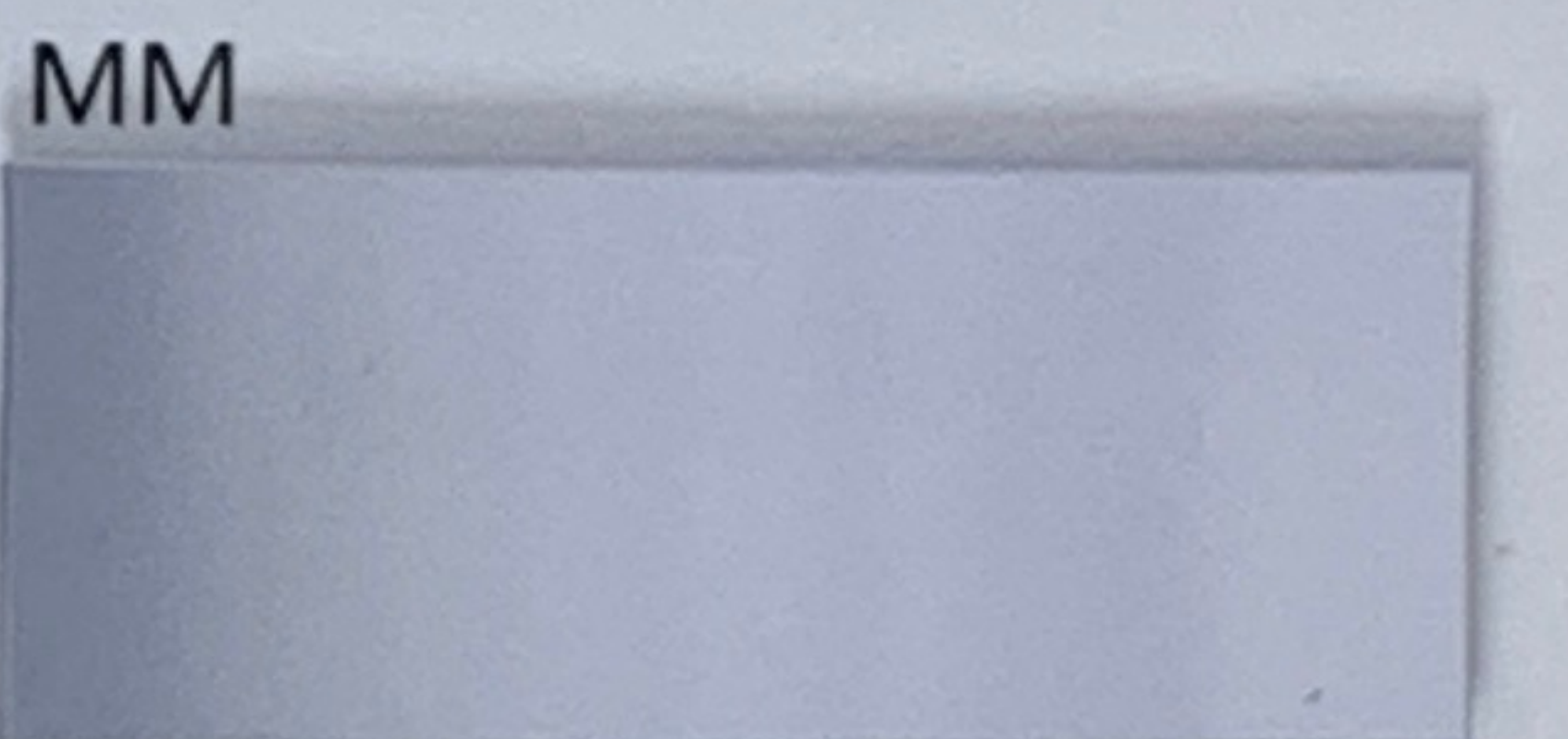
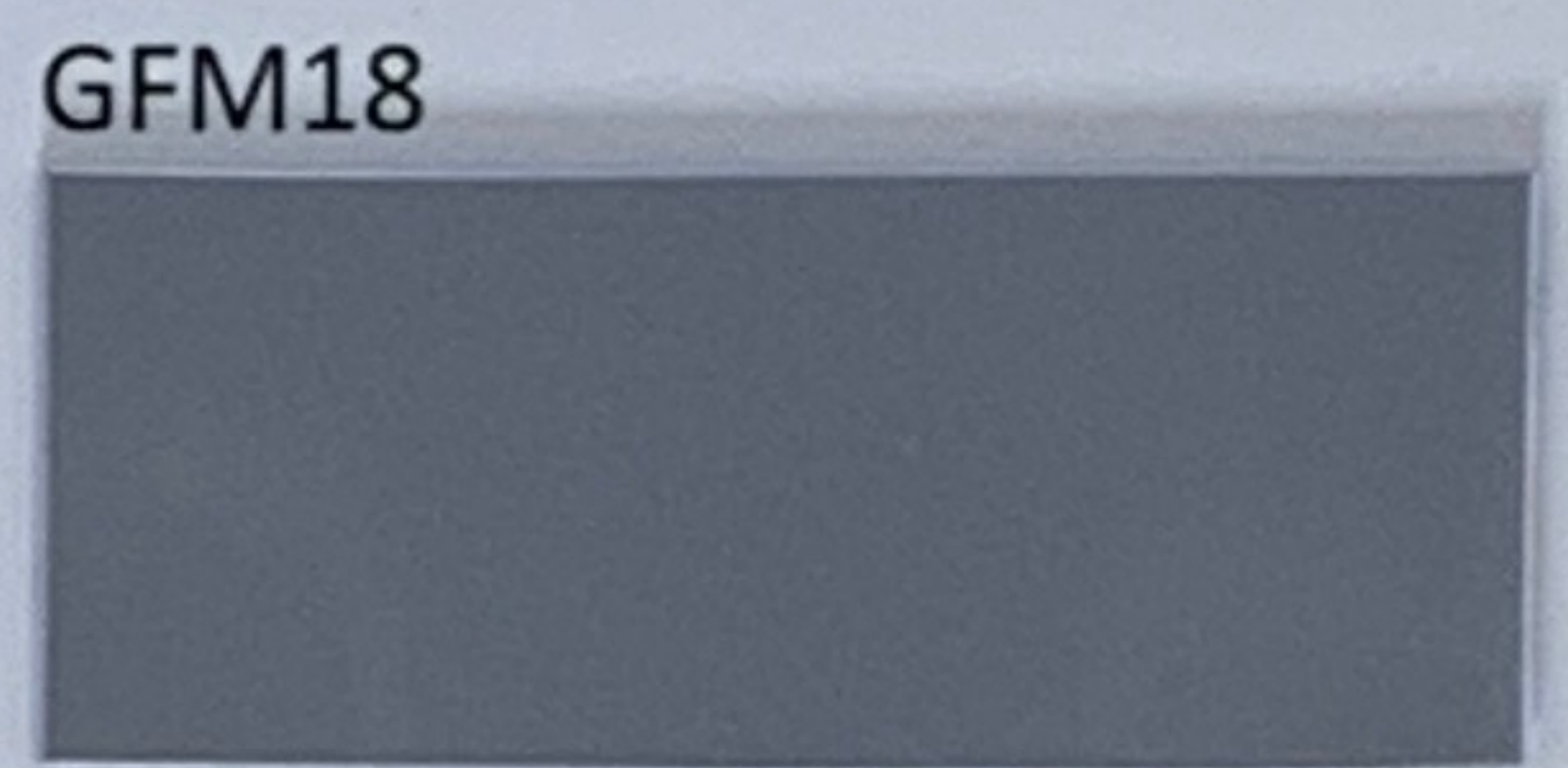
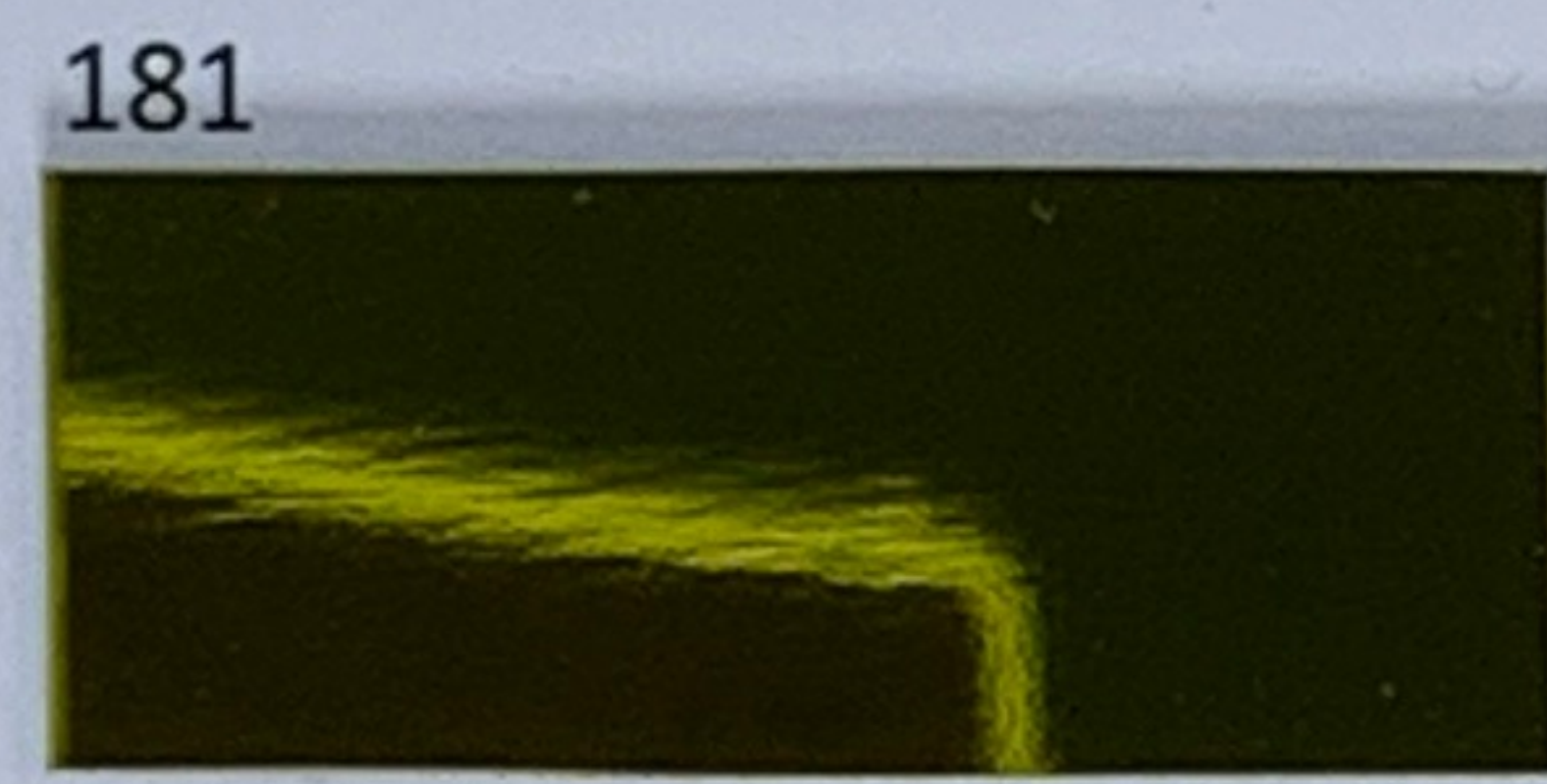
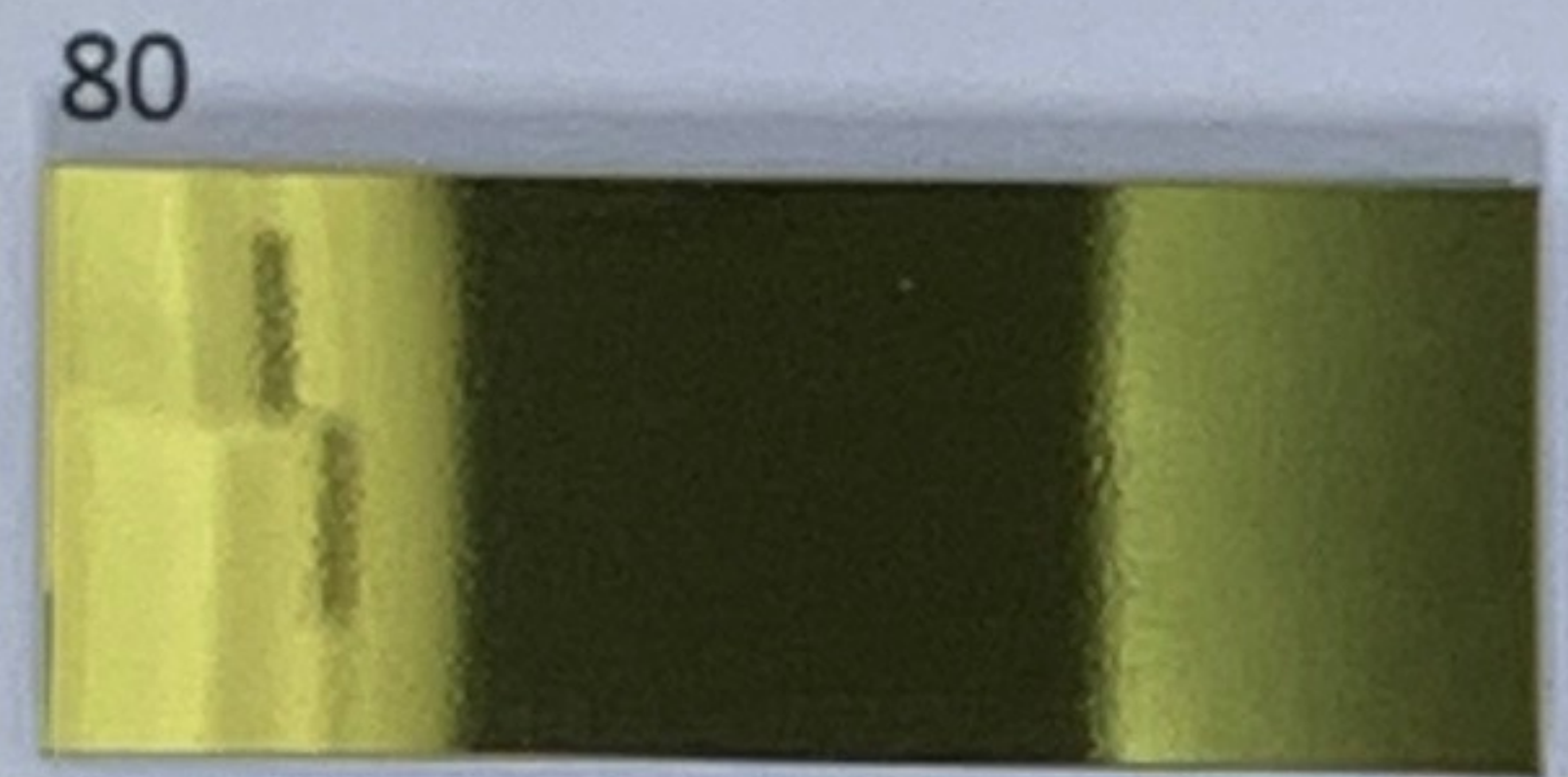
North Pacific International, Inc.

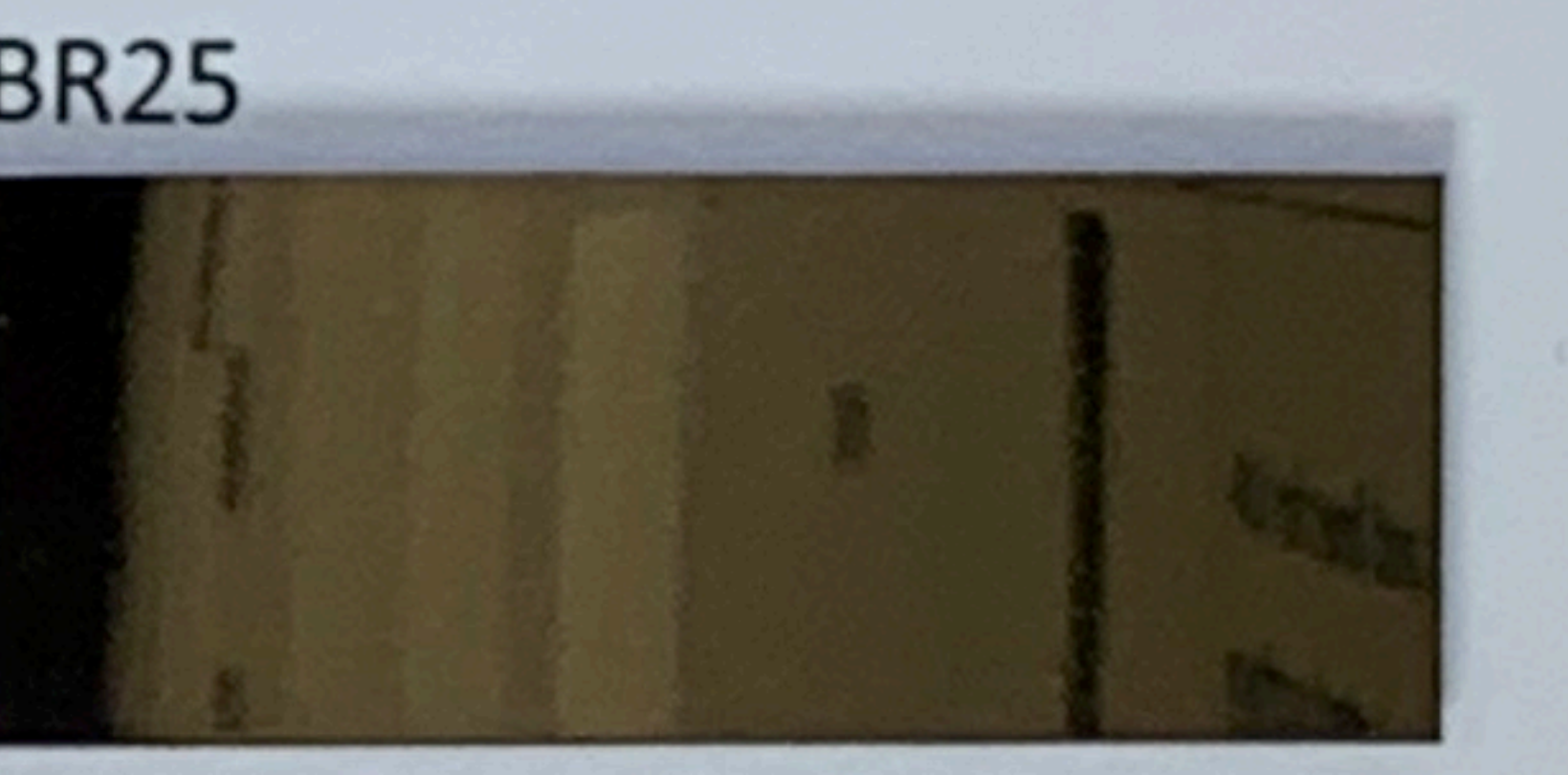
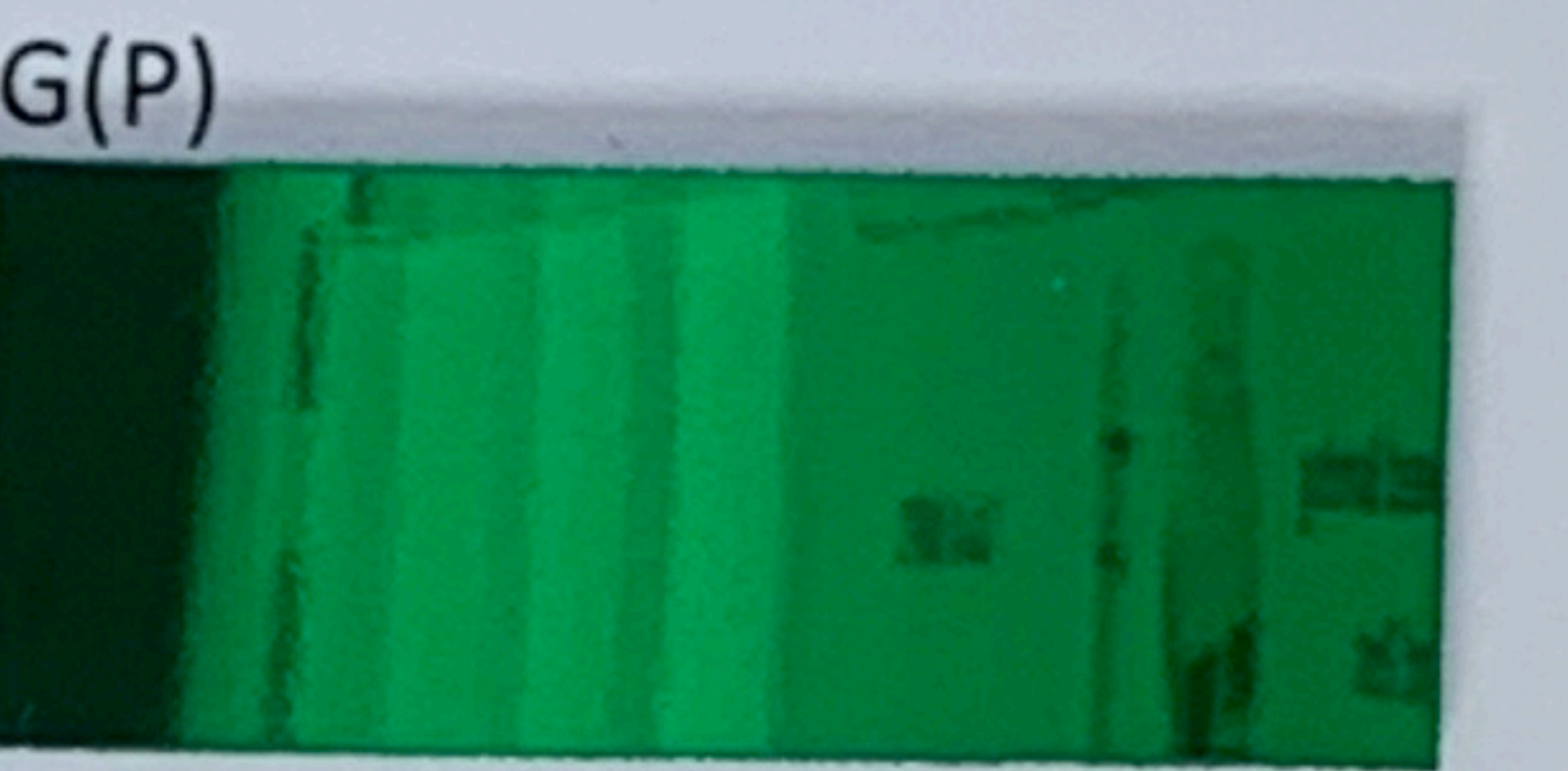
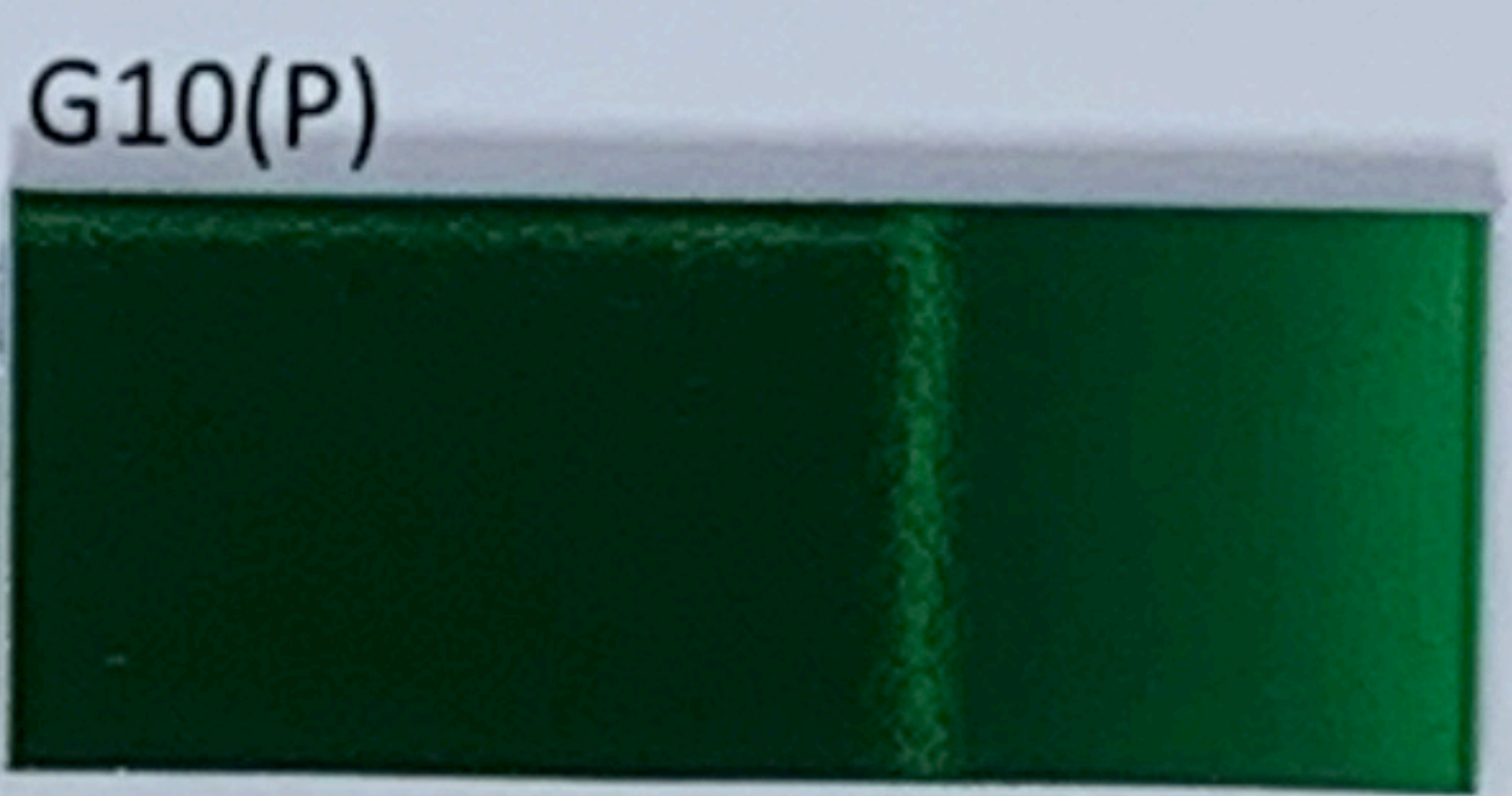
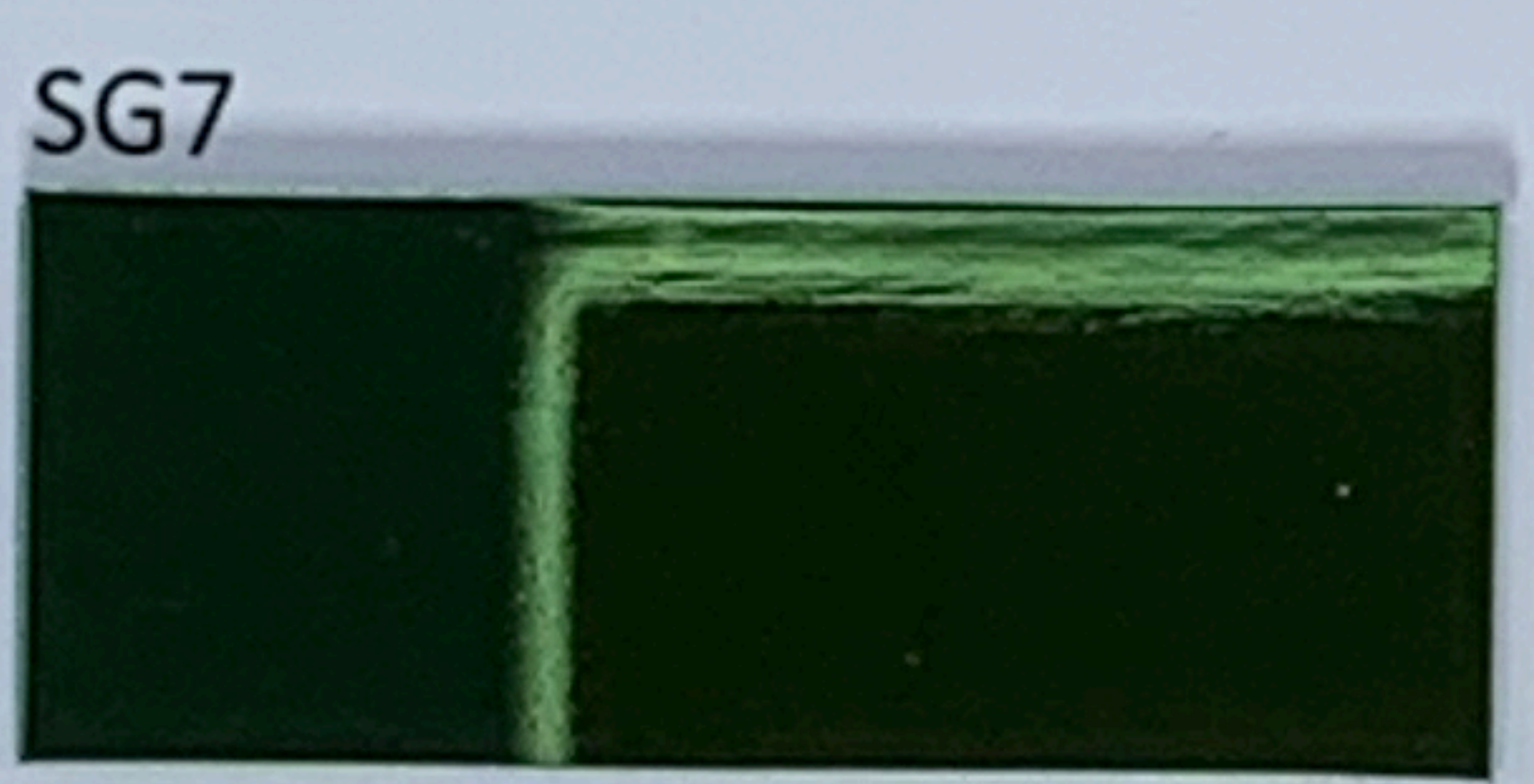
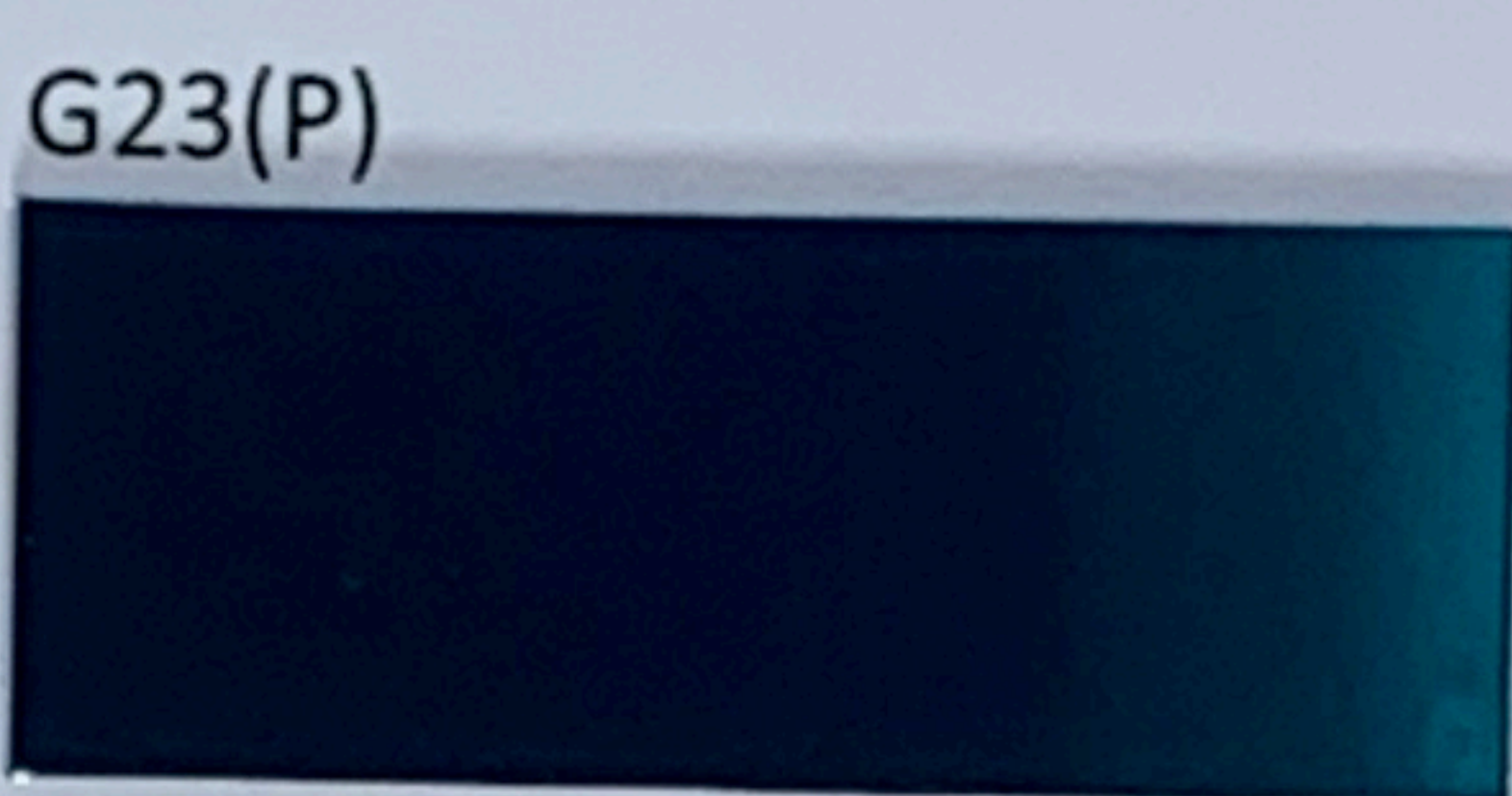
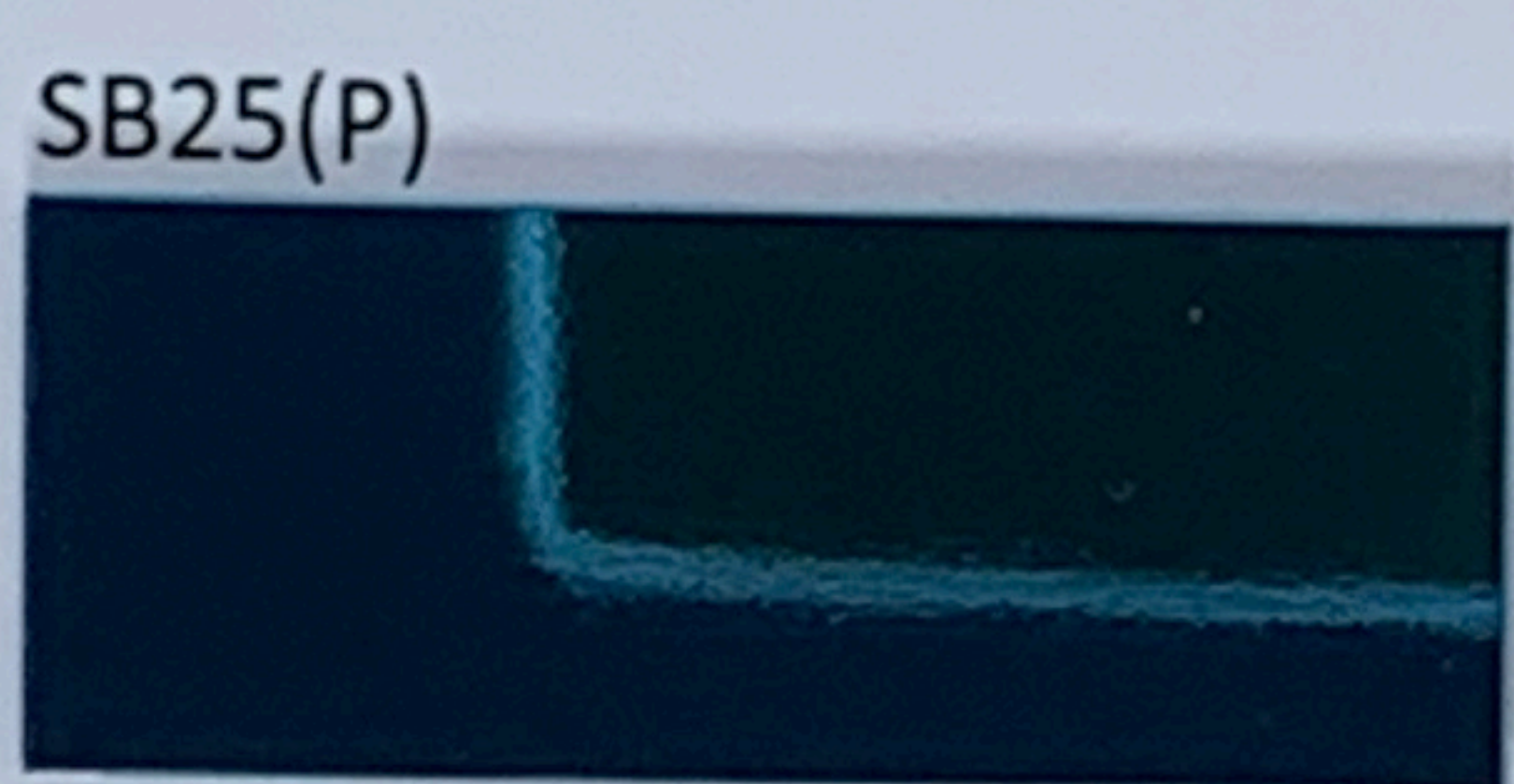
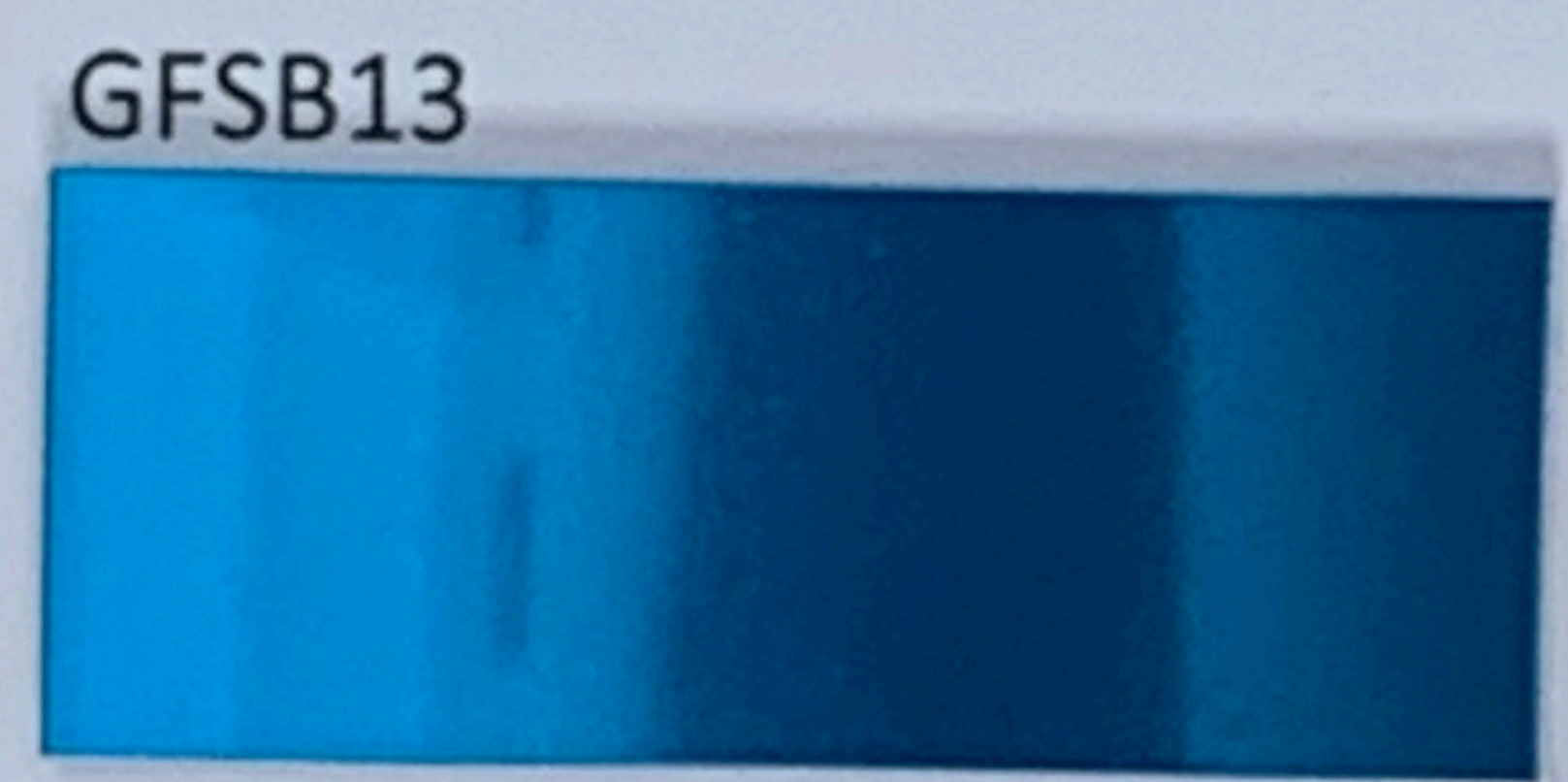
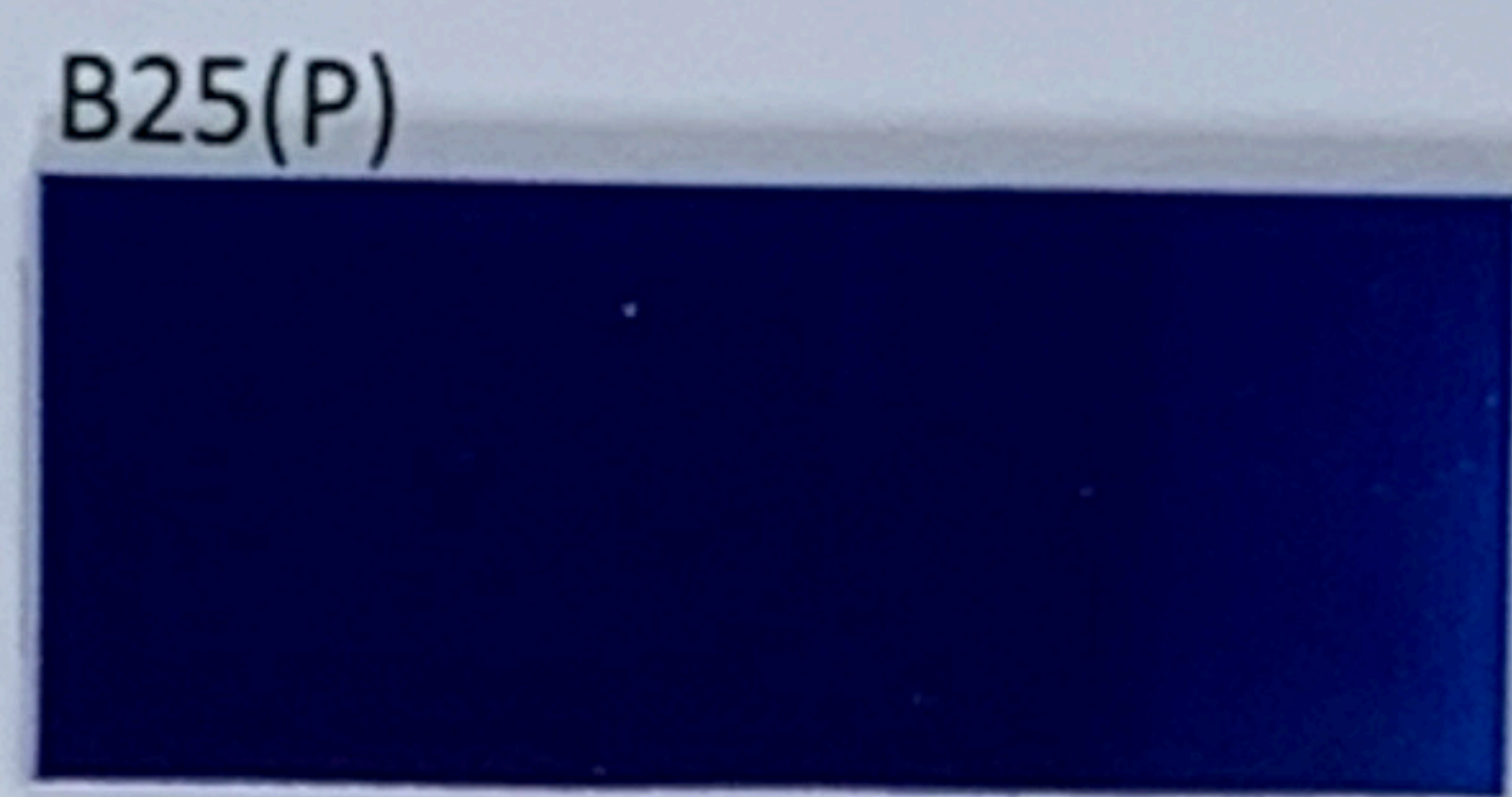
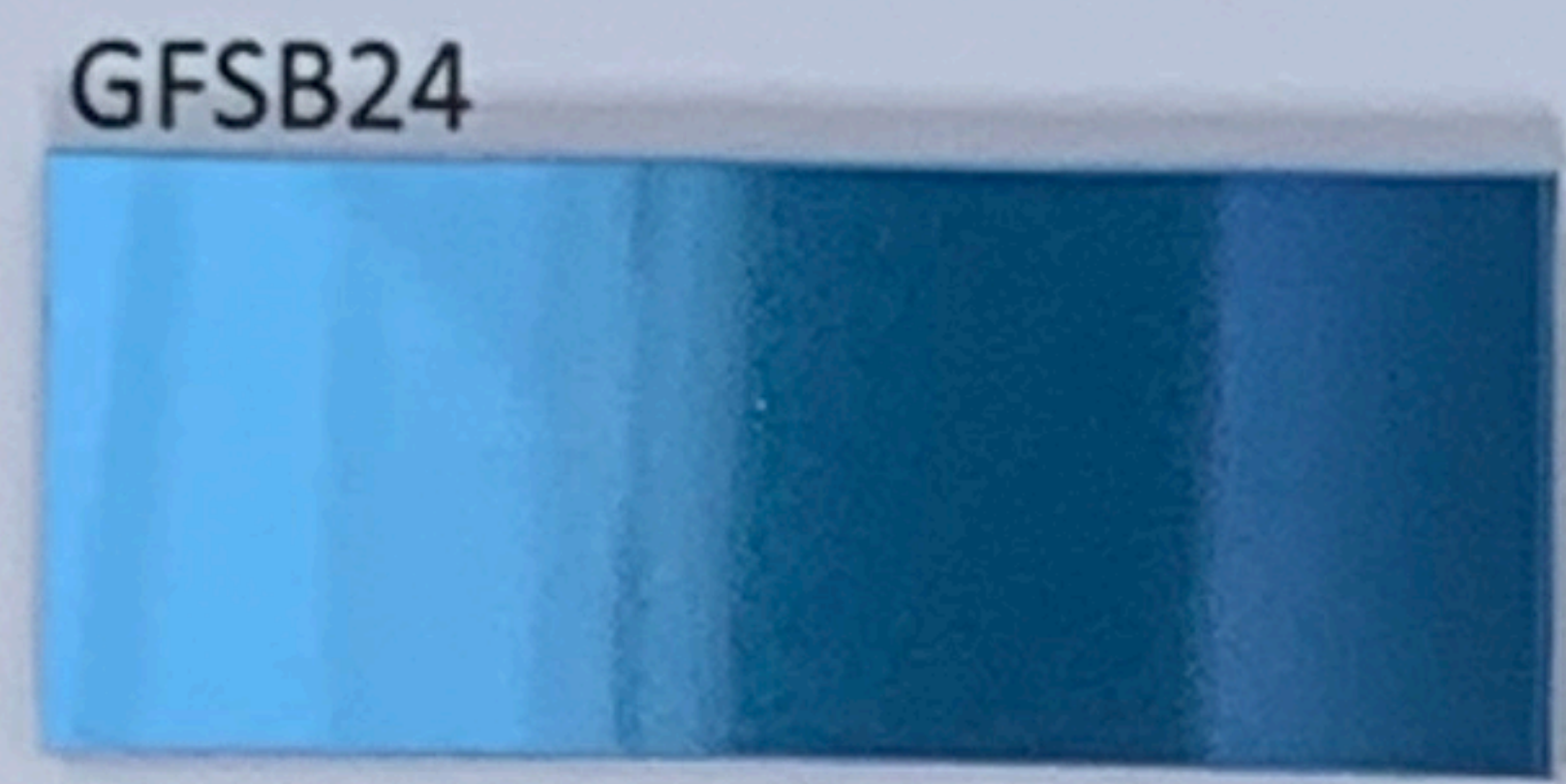
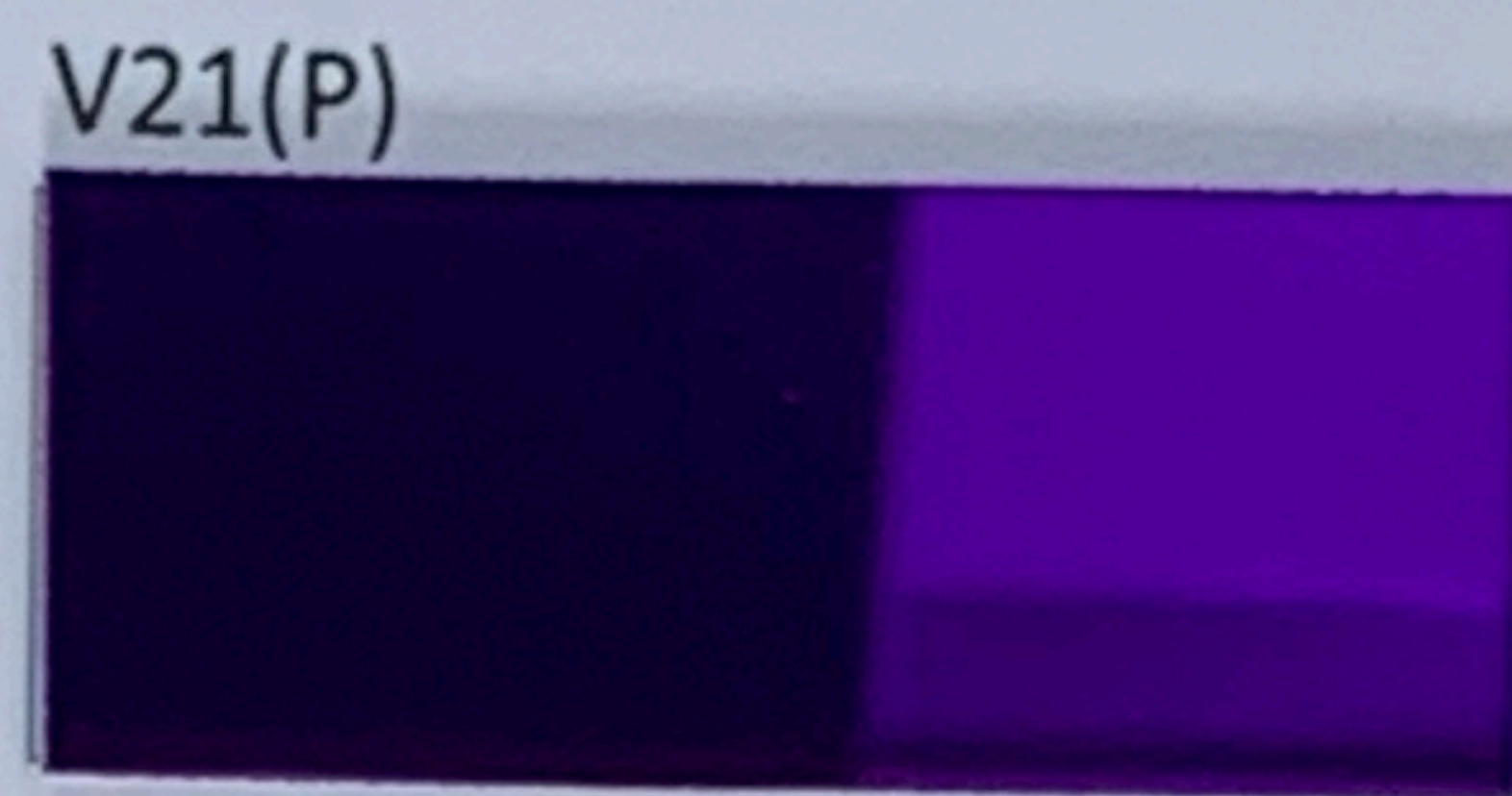
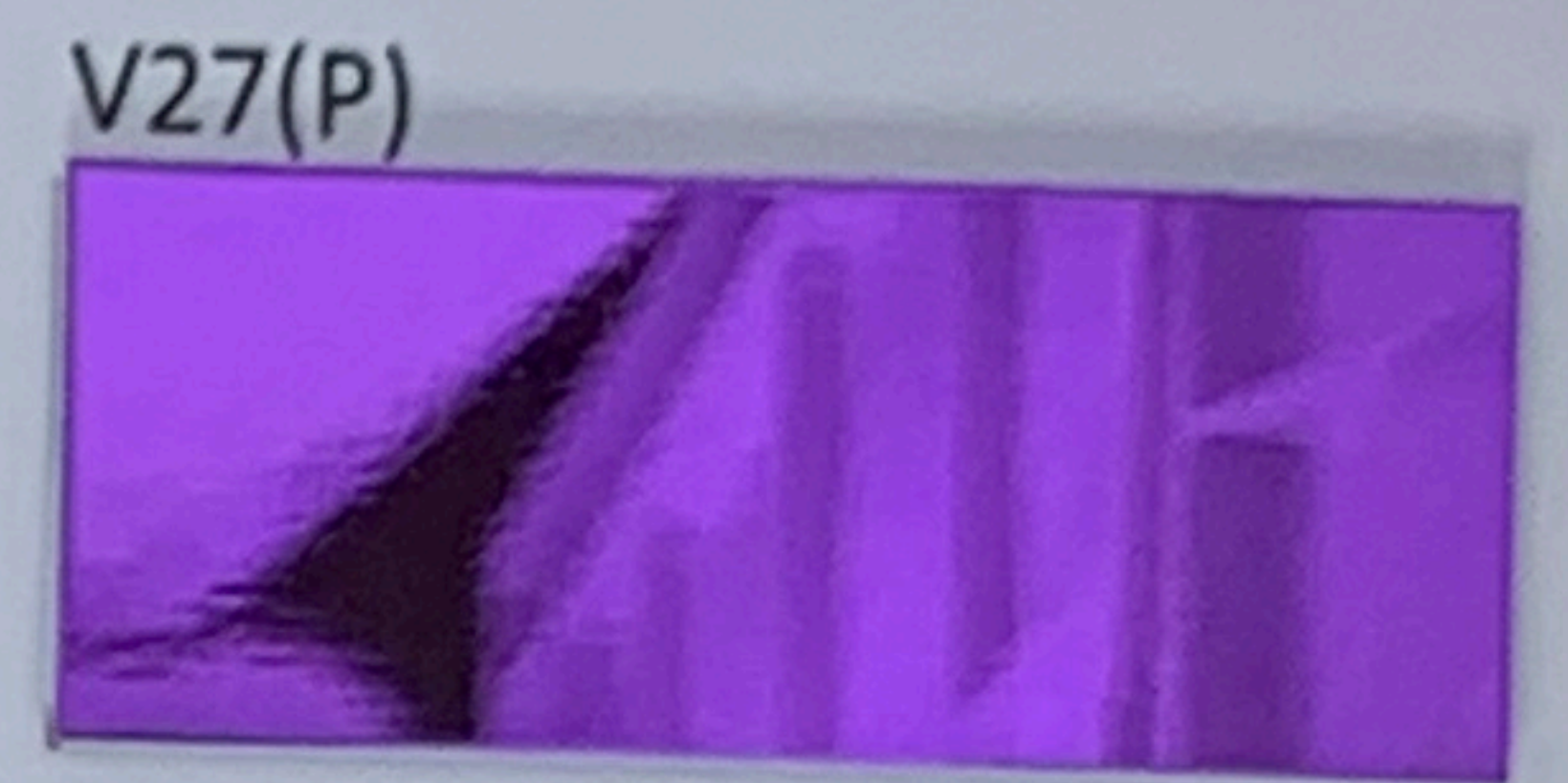
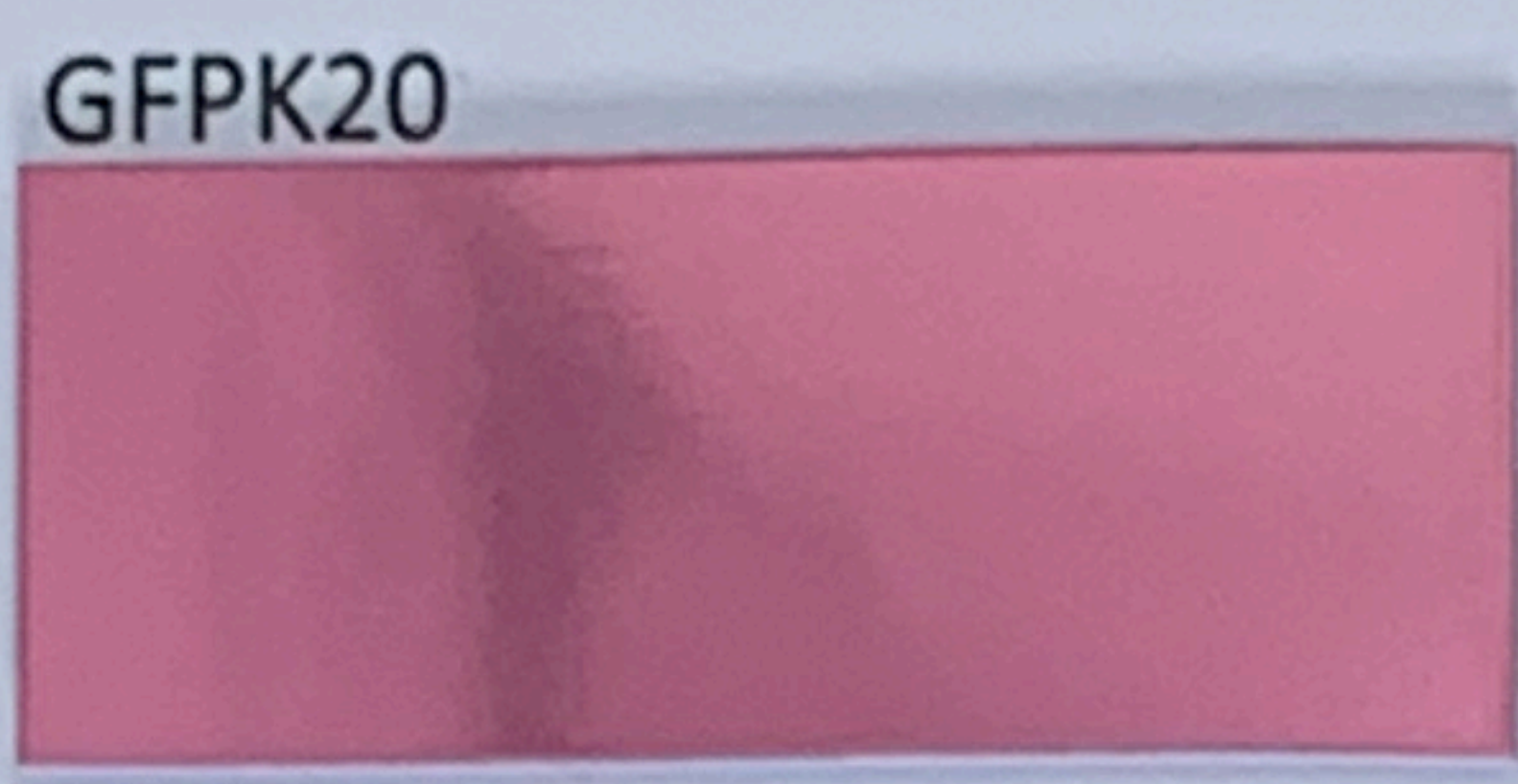


Foil Color Catalog

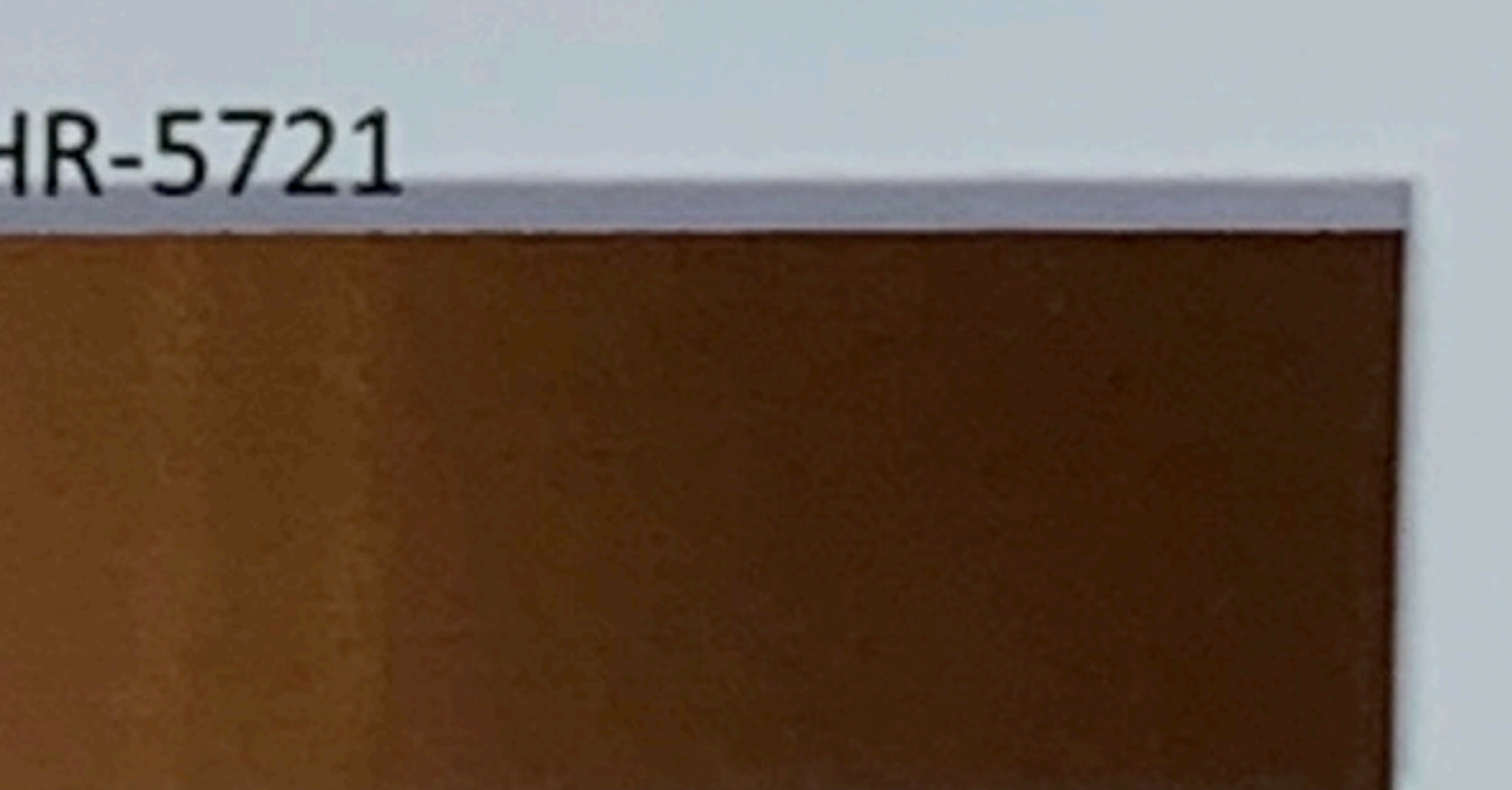
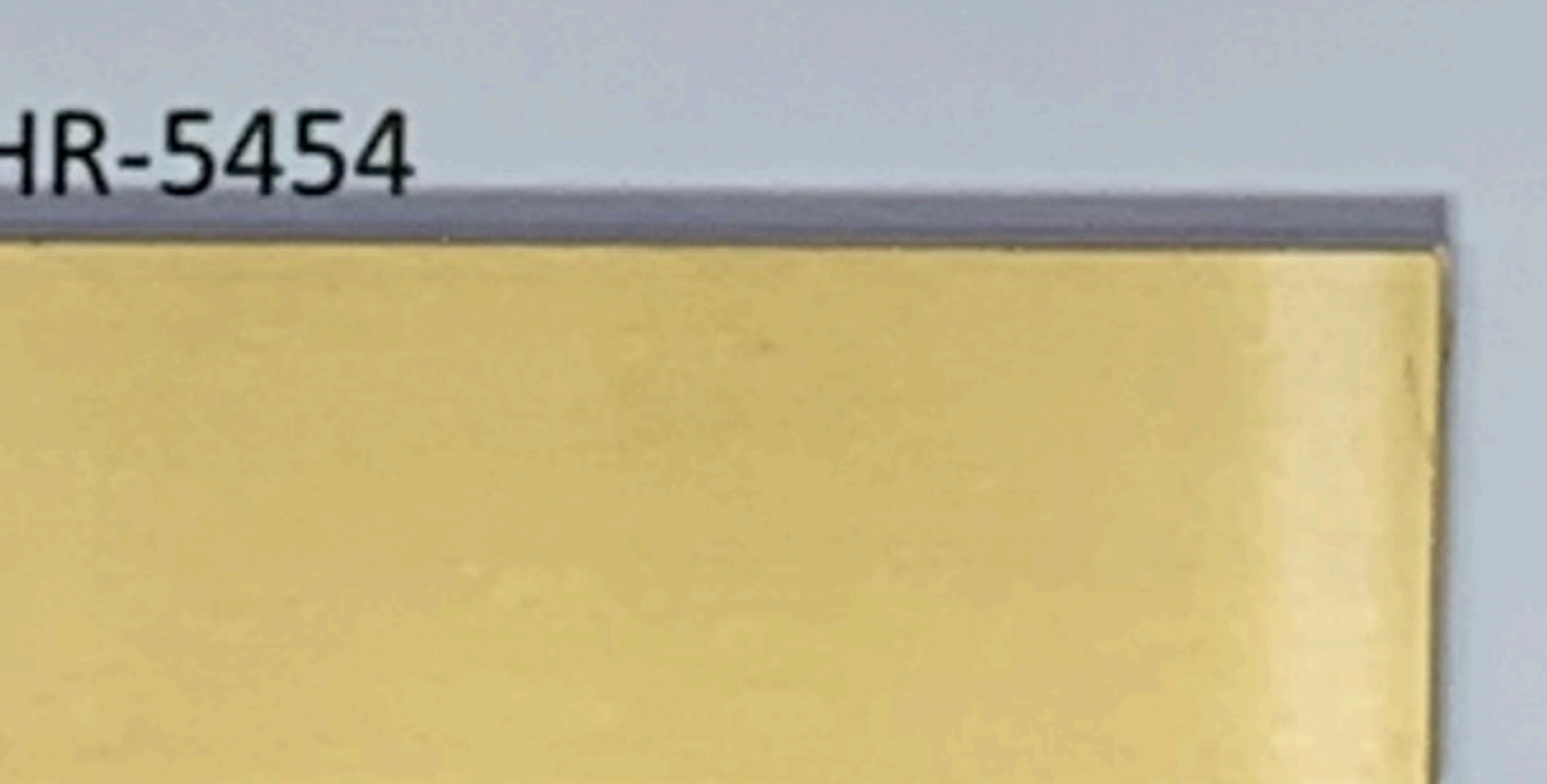
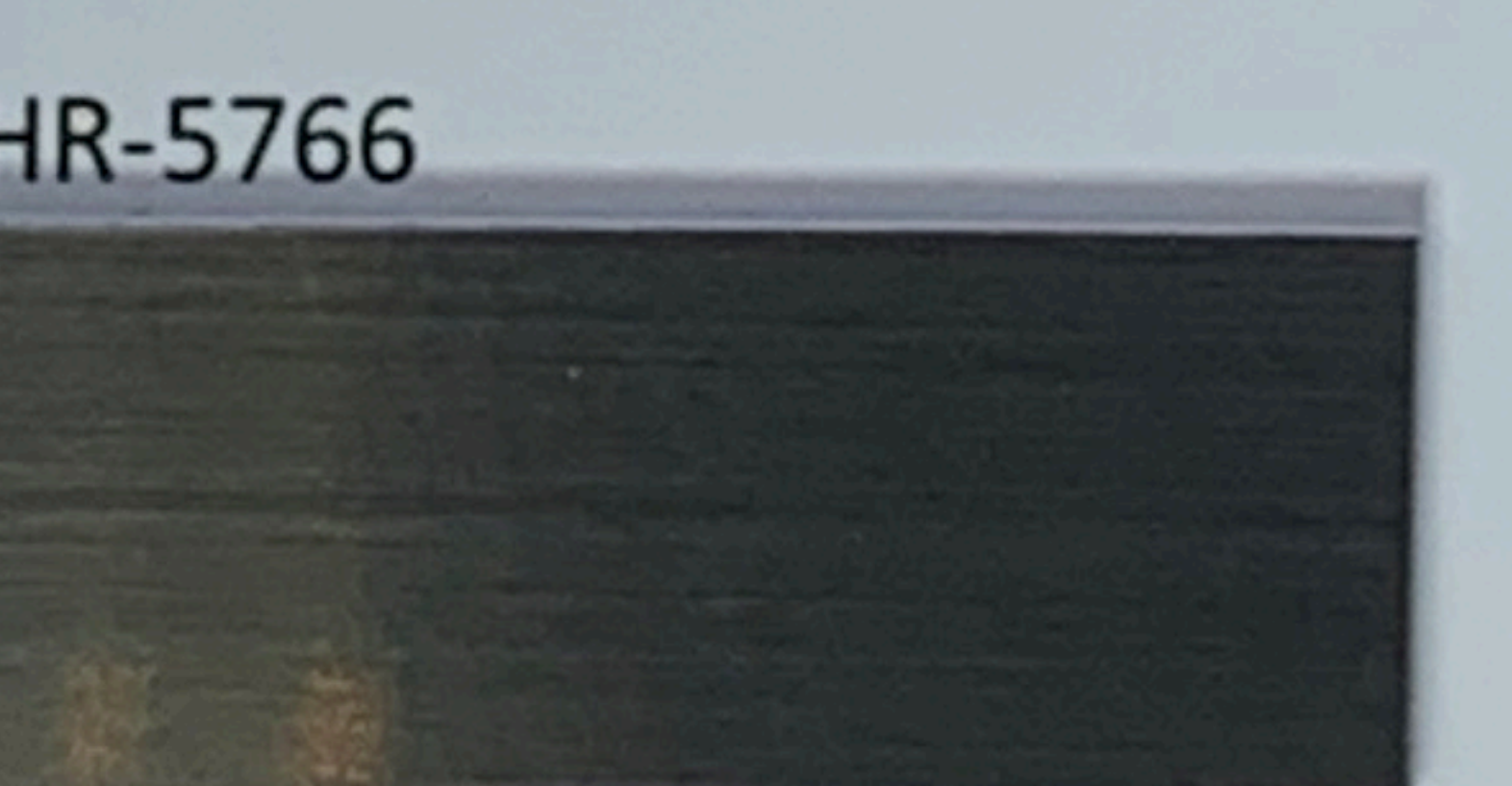
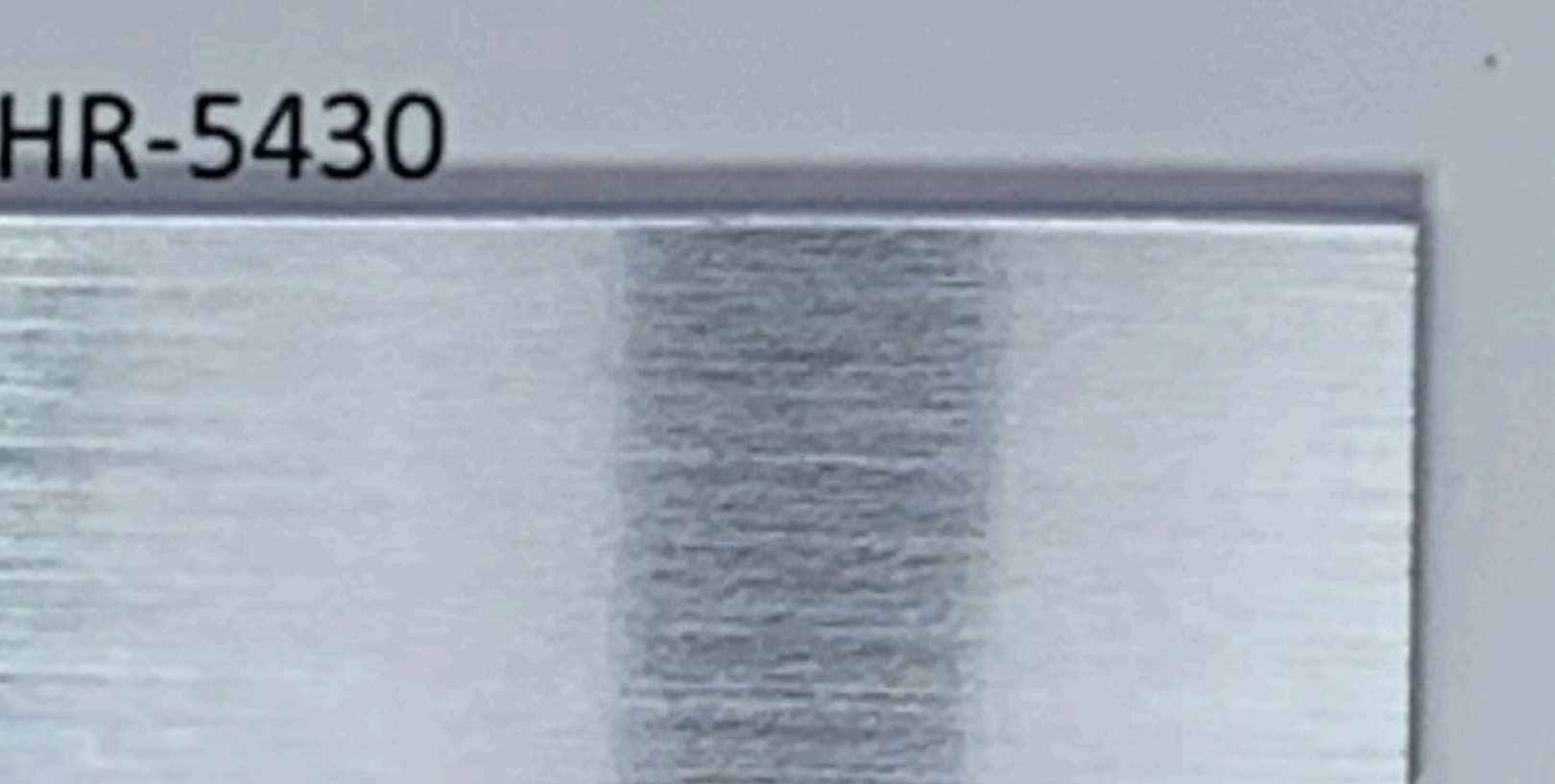
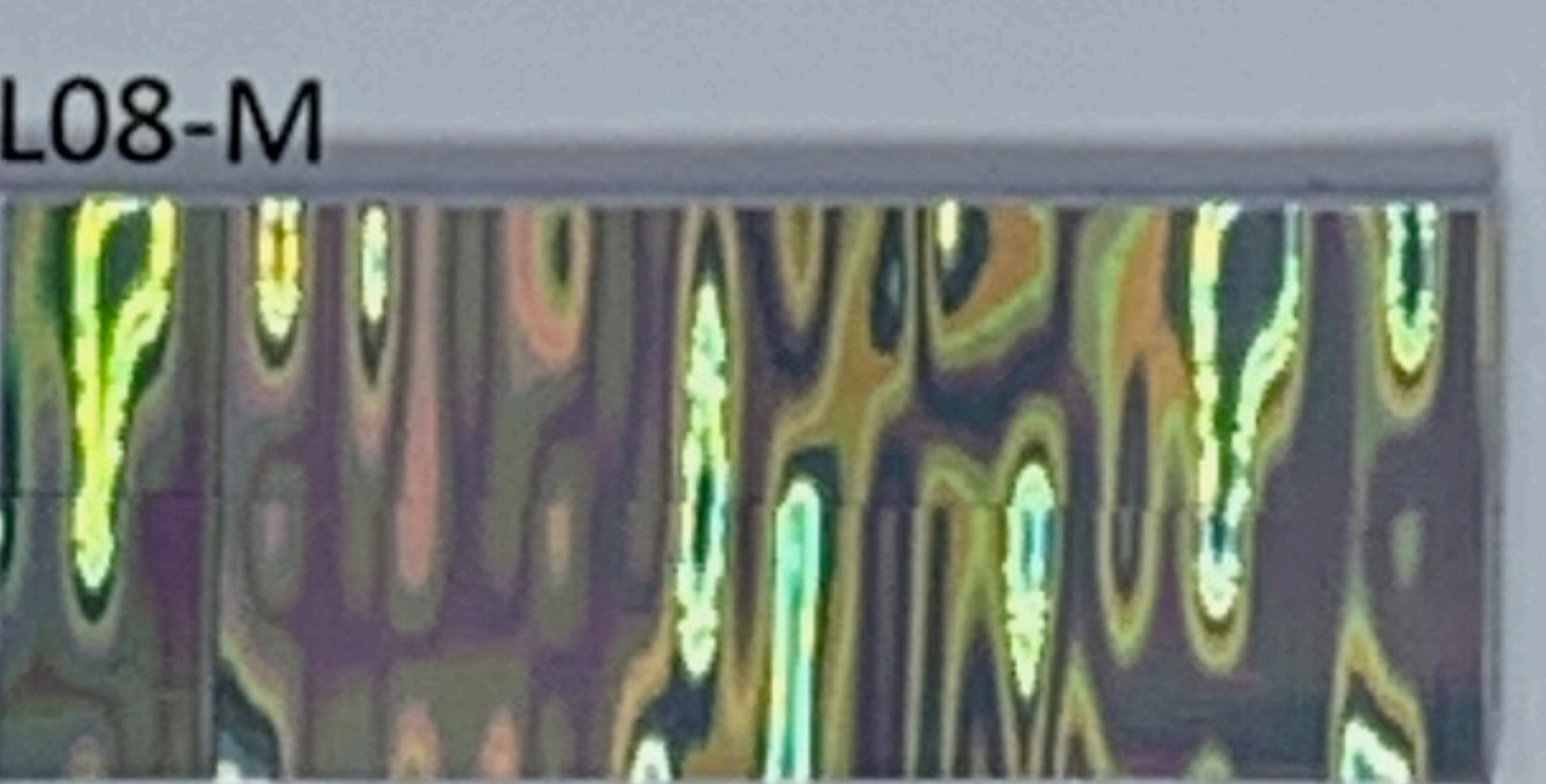
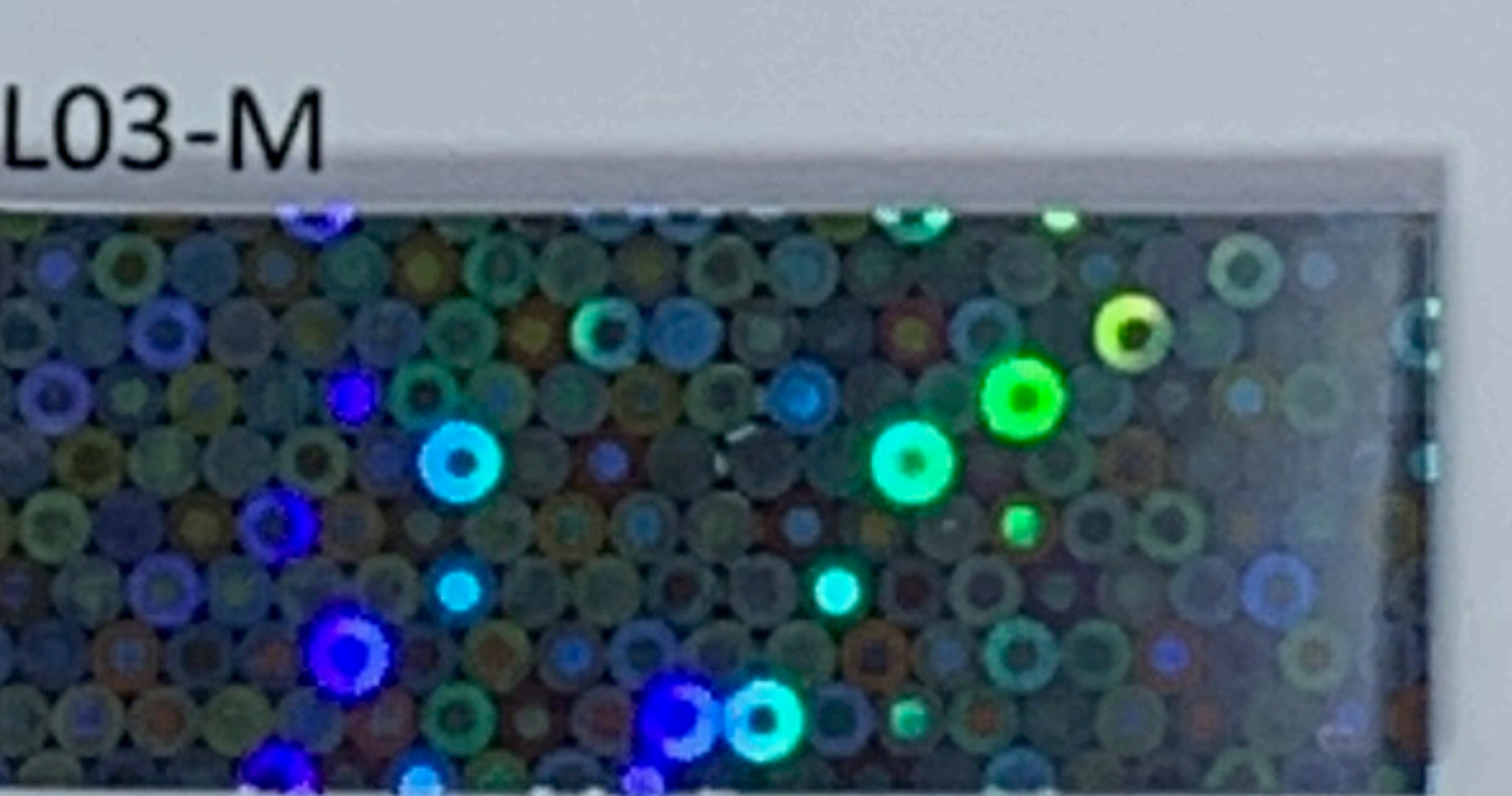
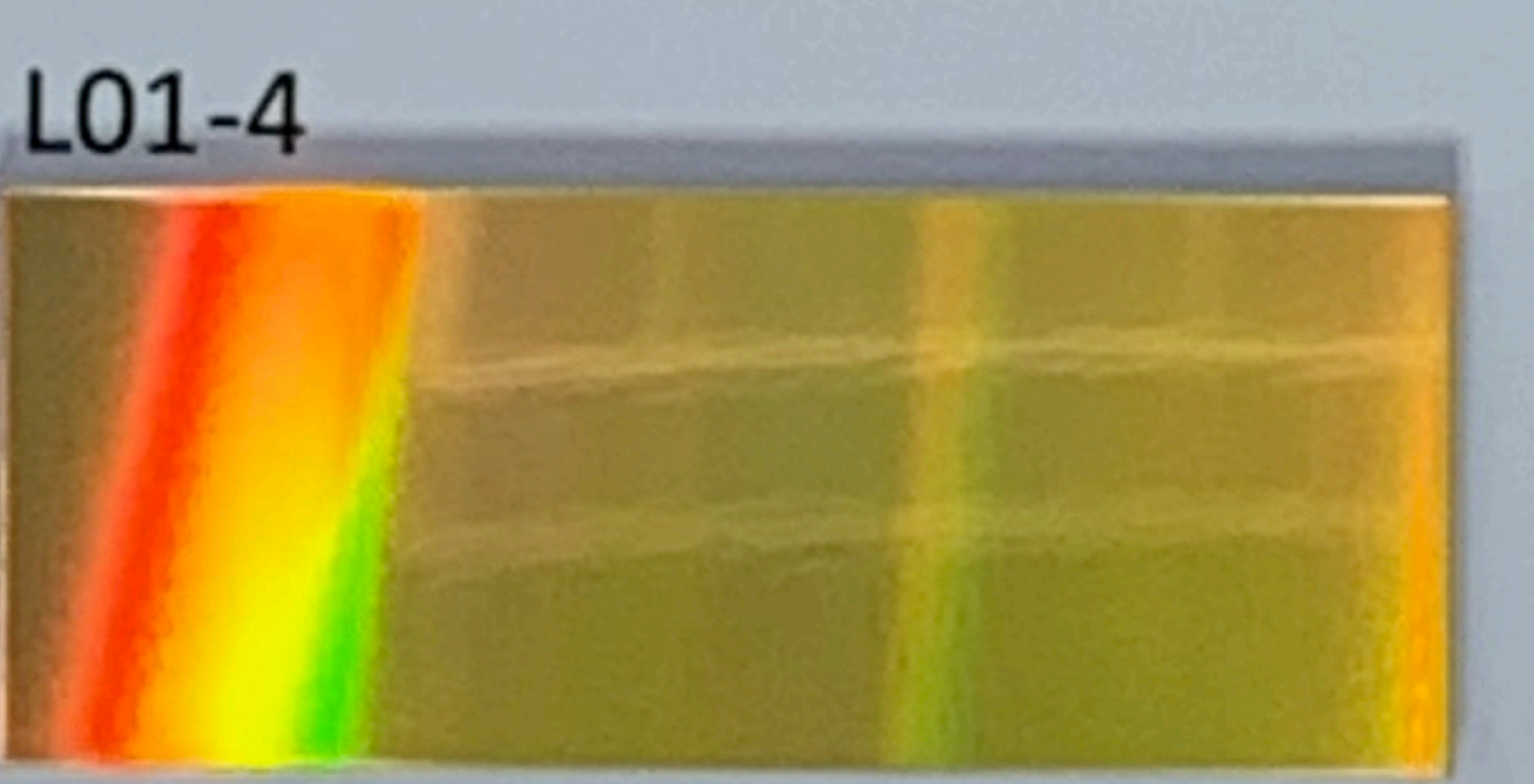
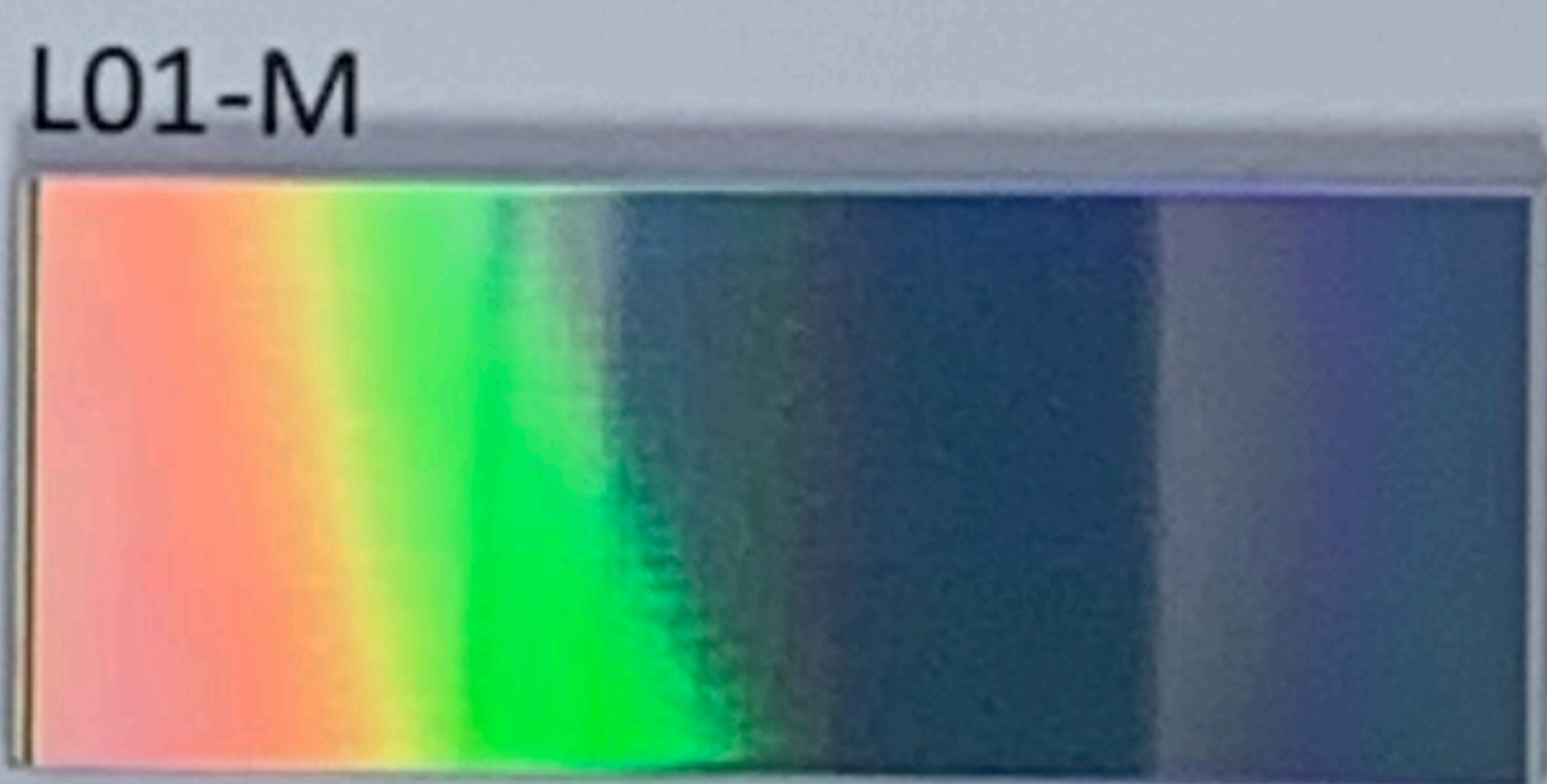


Metallic Foils












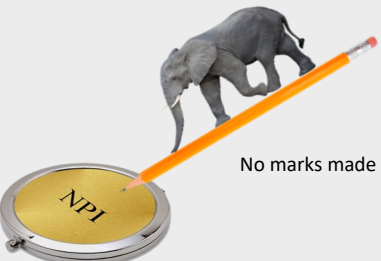



Holographic & Brushed Foil



Foil Application Chart

SUBSTRATE	FEATURES	APPLICATION	FOIL TYPE
Polypropylene (PP)	High Speed Banding and Text Excellent Overlap		PP-A IMP1
Rigid Plastic (ABS/SAN)	High Speed Banding and Text Excellent Overlap		ST-A IMP2
PET-G & UV Gloss	High Speed Banding and Text		TA-A IMP2
UV-Matte Surface	Text and lines for UV- Matte coated surface		TBS
UV-GLOSS Surface & PP/ABS/SAN	A. Text and lines for UV- Gloss coated surface B. Wide area decoration for Rigid Plastic (UP/DOWN)		GP-R
PE Bottles / Tube	Text and lines		GPS
PE Bottles/ Tube	Very fine / small text Sharp image		GPS-K

NPI Standard Metallic Foil Compatibility Chart

<p>Alcohol Resistance No Change</p>  <p>Dipping in 99.5% EtOH for 4 hrs. at 50°C 95% RH</p>	<p>Adherence No Separation</p>  <p>Test the adhesion on cross-cut surface (100 cells) by using Nichiban 24mm wide tape. Then dip in water for 1 hr. at room temp. and perform adhesion test again</p>  <p>No Separation</p>	<p>Thermal Shock Resistance</p>  <p>No Change</p> <p>4 cycles of 1 hr. at -20°C and 1 hr. at 60°C</p>
<p>Water Resistance No Change</p>  <p>Dipping in running water for 48 hrs.</p>	<p>Heat Resistance No Change</p>  <p>168 hrs. at 60°C</p>	<p>Solvent Resistance No Change After 100+ Strokes</p>  <p>Rubbing with force of 1kg/cm² with IPA denatured alcohol</p>
<p>Fingernail Resistance Not be conspicuous</p>  <p>Scratch lightly with fingernail</p>	<p>Cold Resistance No Change</p>  <p>168 hrs. at -20°C</p>	<p>Abrasion Resistance No Change After 300+ Strokes</p>  <p>Rubbing with force of 500 gram load</p>
<p>Pencil Hardness No marks made</p>  <p>Min. HB Uni-pencil with force of 1kg on PMMA</p>	<p>Humidity Resistance A No Change</p>  <p>168 hrs. at 40°C 95% RH</p> <p>Humidity Resistance B No Change</p>  <p>120 hrs. at 60°C 95% RH</p>	<p>Perspiration Resistance No Change</p>  <p>168 hrs. at 60°C</p>

Our foil will help protect your brand and increase the value of your products with superior chemical and scratch resistance

NPI is committed to provide safe and environmentally friendly products. Our metallic foils exceed ROHS and REACH regulations while achieving the highest compatibility standards in the industry.

Our wide product selections will satisfy a variety of application needs such as high speed decorations, stamping on UV coated surface's and wide area decorations.

NPI combines environmental safety, workability, and the toughest compatibility as the #1 quality foil supplier in the industry.

North Pacific International, Inc.

5944 Sycamore Court, Chino, CA 91710

Tel: 909-628-2224 Fax: 909-628-2257

Email: sales@npifoil.com

Website: www.npifoil.com