Lazer LXII is a UV curable ink specifically formulated for printing on many difficult to adhere to surfaces. LXII has the ability to adhere, without the use of additives, to fluted polypropylene and high density polyethylene. LXII also offers excellent water resistance without the use of waste producing additives.

**Performance Properties**
- Adhesion to fluted plastic signage and most coated metals
- Durable, scratch resistant
- Large range of standard opaque colors
- Solar Shield Clear for extended outdoor durability
- Superior print quality
- Water resistant without additives

**Recommended Substrates**
- ABS
- Anodized Aluminum
- Fluted Polypropylene
- High Density Polyethylene
- Many coated metals
- Polystyrene
- Rigid Vinyl

**Curing/Processing Guidelines**
Ink will cure well when printed through 355 (140cm) plain weave polyester mesh or finer. LXII's optimal cure window of 175 - 200 mJ/ cm² 550 - 650 mW/ cm² is generally achieved with one 200 watt per inch mercury vapor lamp at a belt speed of 50 - 60 feet per minute (20 – 30 m / min). Cure speeds may vary as thicker material and dark surface colors require more energy. HDPE requires 350 mJs achieved with one 300 watt bulb at 30 feet (10 m).

Adhesion should be a minimum of 95% from curing unit with final adhesion developing within four hours of initial polymerization. Coarser fabrics can be utilized, however, cure parameters may need to be adjusted for increased ink film.

If a loss of gloss or adhesion due to insufficient cure is noticed, the use of 5 – 10% LXII Mixing Clear will increase light penetration and improve cure.

**Light Fastness**
At full strength and cured properly, LXII colors are formulated to withstand up to two years of exterior exposure. Factors that will alter the outdoor durability of the ink include but are not limited to: substrate grade/age, poor cure of the ink film, formulas, directional positioning, ink film deposit, exposure to excessive abrasives and air pollutants. Some resin systems may chalk after a given time period and require a clear for extended outdoor durability.

Care should be taken when reducing the mass tone* colors with clear or tinting white as this could negatively affect the exterior durability of the color. Colors that should not be used for outdoor applications are: CMS 164 BS Red, CMS 114 Orange, 180 Warm Red and 131 Brilliant Orange. Automotive grade color alternative recommendations are available by calling our Technical Services Department. *Mass tone: the full product color without dilution.

**ROLLER COATING**
- 20047 SP RC Solarshield Overprint Clear

**SCREEN**
- 7938 SP LXII Solarshield Overprint Clear

**Printing**
Mix well prior to use. While supplied in press ready condition, LXII may be reduced up to 10% with LXII Thinner for special viscosity adjustments. Care should be taken to print the ink at optimal temperature 70 - 90° F (21 - 27° C). Cool ink will higher viscosity and will not flow properly. Hot ink will be lower in viscosity resulting in poor definition and decreased opacity.

**Coverage**
3,200 to 3,600 square feet per gallon based on ink deposit .40 - .60 mil dependent on color and printing conditions.

**Storage**
Care should be taken to store ink in tightly closed containers located in a cool (60 -80°F/15-27°C) dark place. With suitable conditions, unopened ink is expected to have a shelf life of approximately twelve (12) months from date of manufacture.

**Metallics**
Use the Metallic Mixing Clear to prepare metallic ink as its increased viscosity helps insure a good particle suspension.

**Recommended mixing ratios, by weight are:**
- 28% gold paste
- 12% silver paste

For optimum coverage and opacity, 280-305 (110 – 120cm) plain weave mesh. Use DF Overprint Clear for extended weatherability and to improve the non-tarnishing properties of the product.

**Additives**
- 1004 Thinner - Use up to 10% as needed
- 1534 Adhesion Promoter up to 3% as needed

**Precautions**
Read the safety data sheet prior to processing. It contains instructions for precautions to be taken when handling inks. If ink comes in contact with skin wipe off with a clean, dry cloth (do not use solvent). Wash and rinse the affected areas with soap and water.
**Process Printing**
For superior halftone reproduction, Lazer LXII halftones are available in a range of density levels. Additional control of density may be achieved with use of DF HT Base. For best results, use 380 (150cm) or finer and a smooth, thin stencil coating should be utilized with process printing.

<table>
<thead>
<tr>
<th>Press Density</th>
<th>LXII Haltone Yellow</th>
<th>LXII Haltone Magenta</th>
<th>LXII Haltone Cyan</th>
<th>LXII Haltone Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ready</td>
<td>0.90</td>
<td>1.40</td>
<td>1.40</td>
<td>1.60</td>
</tr>
<tr>
<td>High Density</td>
<td>1.10</td>
<td>1.75</td>
<td>1.80</td>
<td>2.00</td>
</tr>
<tr>
<td>Backlit Density</td>
<td>1.35</td>
<td>2.05</td>
<td>2.20</td>
<td>2.25</td>
</tr>
</tbody>
</table>

**Color Availability**
Lazer LXII is available in twenty opaque standard colors. Custom matches, metallic, fluorescent and transparent colors are obtainable upon request.

- LXII-101 Primrose Yellow
- LXII-111 Lemon Yellow
- LXII-123 Medium Yellow
- LXII-131 Brilliant Orange
- LXII-135 Vivid Orange
- LXII-141 Fire Red
- LXII-151 Scarlet Red
- LXII-155 Rubine Red
- LXII-160 Rhodamine Red
- LXII-180 Warm Red
- LXII-190 Process Blue
- LXII-200 Peacock Blue
- LXII-205 Reflex Blue
- LXII-210 Ultra Blue
- LXII-220 Emerald Green
- LXII-225 Forest Green
- LXII-226 Lime Green
- LXII-235 Teal
- LXII-240 Purple
- LXII-250 Brown
- LXII-301 Opaque Black
- LXII-311 Opaque White
- LXII-312 Jet Black
- LXII-026 Brilliant White
- LXII Mixing/Overprint Clear

**Pantone Matching System® Colors**
The nine PANTONE® approved Color Matching System (CMS) shades are used to simulate the PANTONE® Color Specifier colors. Formulas were designed for maximum opacity and are available in book or Imaging Color source Software formats.

| LXII-064 CMS GS Yellow       | LXII-066 CMS RS Yellow   |
| LXII-114 CMS Orange         | LXII-121 CMS YS Red      |
| LXII-164 CMS BS Red         | LXII-165 CMS Magenta     |
| LXII-127 CMS Violet         | LXII-230 CMS Blue        |
| LXII-325 CMS Green          | LXII Tinting White       |
| LX Shading Black            | LXII Mixing/Overprint Clear |

PANTONE® is a trademark of Pantone, Inc. Portions Pantone, Inc. 1963, 1991

We strongly recommend testing complete construction as per shop conditions prior to full production. MIX WELL BEFORE USE. Follow the directions on the package, ask for the safety data sheets and always follow the directions contained therein.

**Important** – Only the correct use of the product will allow satisfactory results. For this reason, closely related to the product supplied, Polymeric must decline all direct and indirect responsibility for the proper or improper use of the product. Make certain that product is right for the desired use, work according to the instructions given in our technical data sheets. Before use contact our Technical Service in case of doubt.

---

**A. Warranty Liability Limited to Purchase and Installation Costs**
Notwithstanding anything provided herein or any other written material to the contrary, Polymeric only warrants the purchase price and costs of installation. POLYMERIC SHALL HAVE NO LIABILITY OR OBLIGATION TO ANY USER, BUYER, PURCHASER, DISTRIBUTOR OR OTHER PERSON OR ENTITY FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED, INCLUDING WITHOUT LIMITATION, PERSONAL INJURY, LOSS OF BUSINESS, LOSS OF PROFIT, OR OTHER DAMAGE, whether or not buyer shall have informed Polymeric of the possibility or likelihood of any such damages.

**B. Limitation of Implied Warranty and Fitness for a Particular Purpose**
POLYMERIC’S WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO AN IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AN IMPLIED WARRANTY OF MERCHANTABILITY, AND ANY OTHER IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, PERFORMANCE, CUSTOMER USAGE OR TRADE.

**C. A Pretest Prior to Production is Recommended to Ensure Proper Suitability for the Intended Application.**

---

Rev. 20170401

(816) 221-5567
www.polymericgroup.com

Polymeric US Inc.
117 E. 14th Avenue
N. Kansas City, MO. 64116

- SGIA -
- G7 Master -