

Environmental Impact

Photopolymer Manufacturing Processes

Photopolymer material and processing

Film Processing: Produced using a Thermal Imagesetter which is a dry-imaging thermoimpression that is chemistry-free (no inks or toners are used)

Backing Material: PETG [Polyethylene Terephthalate Glycol] made from 40% post-industrial recycled content which is non-toxic and does not off-gas

Note: additional backing materials are also available including laminate substrates and 3-form EcoResin panels which are non-toxic and have a 40% recycled content.

Photopolymer material: Novapolymer – is nylon based and 100% biodegradable – environmentally safe. The process uses ultra violet light followed by an aqueous wash. There are no chemicals used.

The “NO” bake process completely avoids the need for additional energy costs in comparison to other photopolymer materials. Novapolymer materials contain a minimal amount of moisture content and will cure at room temperature

Paint material and processing

Paints: Low VOC high solids Acrylic Polyurethane [2.8 – 3.5 VOC]. This specification meets or exceeds compliance regulations in all states.

Paint Booth: The booth has 2 separate units with independent controls. Each unit performs at 2,000 CFM for a maximum of 4,000 CFM. Having the separate units allows manufacturing to allocate the required amount of energy utilization to the work being performed. This avoids unnecessary waste for exhaust and air make-up.

Text and Raised Surface Processing

Hot stamping: Foil material applied with heat and pressure to raised surfaces.

Clear Coat: A protective top coat used with hot stamping to protect the color and substrate material. VOC range between 2.8 and 3.5

Screen Printing: Inks applied to raised surfaces are Hazmat rated and there is nothing currently on the market that we are aware of that is both eco friendly and can provide the same level of quality to meet the industry requirements.

Photopolymer signs may qualify for the following LEED-NC and LEED-CI credits:

MR Credit 4 - Recycled Content

MR Credit 5.1 & 5.2 - Regional Materials

EQ Credit 4.1 - Low-emitting Materials: Adhesives & Sealants

ID Credit 1



P.O. Box 406 · Muskego, Wisconsin 53150 USA
inprocorp.com
Nationwide 800.222.5556/Fax 888.715.8407
International Sales 262.679.5521/Fax 262.679.5524

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