Premium No Odor/Low Odor Laser Rubber

JOHNSONPLASTICS
PLUS +

PREMIUM NO ODOR/LOW ODOR LASER RUBBER - HOBBY Laser Engraving/Cutting

RPO035 | RUS001

GENERAL LASER ENGRAVING PROCESS

Recommended Equipment & Accessories

- CO2 Laser Engraver (equipped with air assist recommended)
- Warm water and mild dish soap
- Small scrubbing brush, sponge or tooth brush
- Utility Knife

Recommended Settings- Laser Engraving- Glowforge	
Laser Power	100% (Full)
Laser Speed	500-550
Resolution (LPI)	270

General Laser Engraving Instructions
- If available, use the Rubber Stamp feature.
  - o Rubber Stamp feature requires a Glowforge Premium Membership.
- Place the rubber sheet onto the laser bed and close the laser. The laser will automatically take a photo of the laser bed.
- Import and position the artwork over top of the rubber sheet in the laser software/dashboard.
- Once the artwork is positioned, engrave using the suggested starting settings.
  - o Settings may need adjusted depending on the laser tube wattage.
- When finished, remove the rubber sheet from the laser bed.
  - o Note: It is normal for the rubber material to "gum up" within the engraved area as the laser engraving progresses along.
  - o Note: Recommended engraving depth for optimal stamp performance is 0.040".
- Use a utility knife, razor blade, or manual cutter to cut the stamp out of the rubber sheet.
  - o Optional: A score line can be laser cut into the rubber sheet material to help start a cutout of the stamp from the rubber sheet. See "General Laser Cutting Process" below.

GENERAL LASER CUTTING PROCESS

(Optional) Recommended Settings- Laser Cutting- Glowforge	
Laser Power	100% (Full)
Laser Speed	150-200

General Laser Cutting Instructions (Optional)
- Once stamp has engraved, send the cut/score lines to the laser.
  - o In most cases, the laser will not cut completely through the rubber. This step is optional and intended to create a score line, which serves as a cutting guide for the stamp to then be cut out with a razor blade or manual cutter.
- Import and position the cut lines over top of the rubber sheet in the laser software/dashboard.
- Once the artwork is positioned, laser cut using the suggested starting settings.
  - o Settings may need adjusted depending on the laser tube wattage.
- Take stamp sheet out of the laser.

o If the stamp did not cut through all the way, use a razor blade or manual cutter to cut the stamp out the rest of the way.

GENERAL CLEANUP PROCESS

- Use a dish sponge, brush, and dish soap with warm water to clean out the debris from the engraved areas of the stamp. Dry off stamp with a paper towel.
- If available, use compressed air to dry out water completely from small crevices in the engraved areas and to blow out any remaining debris.

GENERAL STAMP MOUNTING PROCESS

- Use a glue or double-sided adhesive that is rated for rubber stamp use to adhere the stamp to the handle.

GENERAL STAMP TESTING PROCESS

- Press the stamp into an inkpad several times until all artwork is coated evenly with ink.
- Press the inked stamp onto a clean piece of white copy paper with even pressure to test functionality of the stamp.

Troubleshooting
- The engraving is too shallow.
    - o Laser power setting and/or resolution may need to be increased.
    - o Laser speed setting may need to be decreased.
    - o Check laser focus.
    - o Check and clean laser lenses and mirrors.
    - o Check laser alignment. (see laser users manual on how to check and adjust laser beam alignment)
- The engraving is too deep.
    - o Laser power setting and/or resolution may need to be decreased.
    - o Laser speed setting may need to be increased.

- The graphic appears smeared or misshapen in the small/thin parts of the graphic when the stamp is inked and pressed onto a surface.
- The small/thin parts of the graphic may be too small/thin to allow proper integrity of the stamp material with under pressure during the pressing process.
- If possible, widen the small/thin areas of the graphic manually within the artwork to help add structural integrity to the rubber, so that it will better handle pressure while the stamp is being used.
- If available, use the Rubber Stamp feature/function of the laser driver or laser software to create or set up a Shoulder width to be incorporated into the engraving.
  - Using a Shoulder setting will taper the rubber material gradually wider after the initial small/thin portion of the graphic is engraved. This process automatically adds structural integrity to the stamp surface, so that it will better handle pressure while the stamp is being used.
  - Use a laser cutting ("honeycomb") grid insert to set the product up off of the solid metal laser bed.
  - Use air assist if available.

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