

### PRINTABLE AREAS:

- Outer printable area equals space between two concentric circles measuring 37mm or 22.5mm and 116mm in diameter.
- If printing one color text or graphics on the silver of the disc it is recommended to print outside of the mirrorband area which is present between 40mm and 45mm.
- The metalization ends around 37mm. Everything inside this circle is clear plastic. This area is printable, but please keep in mind that this may result in a slight color shift.

### WHITE FLOOD:

- A white flood is recommended for all 4 color prints. We suggest a white flood because it adds contrast to your disc and produces a color that is more true. We will automatically add a white flood to your 4 color process file unless specifically noted in your art file or supplied proof.
- A white flood will help Pantone colors stay more true to the book.

### PROOFS:

- Proofs are available through email, fax, or hard copy.
- Proofs are a representation of color separations, text placement, and registration. They are **NOT** a representation of the true color or gradient of the finished product.

### ELECTRONIC FILES:

#### COLOR MATCHING:

- If a color match is required GLMT **must** be notified. If we are not notified a disc must match something specific you have in mind, we cannot be responsible for color issues. A check disc is recommended in cases where color matching is crucial. There will be an additional charge for check discs and color matching.
- Please supply a color proof with your file. We are unable to match paper proofs but we will come as close as possible if requested.
- It is nearly impossible to match CMYK colors between paper printing and CD offset printing. CMYK colors can shift dramatically on a disc and we cannot be responsible for color deviations due to the limitations of the printing process.

### FILE QUALITY:

- We request a minimum original resolution of 300 on all Tiff and Photoshop EPS files.

### FILES:

- All supporting and embedded files must be supplied. Please include a PDF or color laser of your final art file.

### FORMATS:

- Include all screen and printer font files.
- All text should be line based (in vector graphics).
- Sans serif type weight: 4 pt. or larger.
- Serif type weight: 6 pt. or larger.
- Type reversed out of process separations, like gradients, is **NOT** recommended.
- PC files must have all fonts converted to outlines (It is recommended that Mac files have all text converted to outlines as well to avoid font conflicts).

### FORMAT:

We are cross-platform (preferably Mac). We accept files up to the current versions of the following:

- Adobe Illustrator
- Photoshop
- InDesign
- Quark

If you are not sure, please give the art department a call. GLMT cannot accept files created in MS Word, MS Publisher, MS Excel, or any proprietary label layout program, etc.... Files supplied in these programs will be subject to additional charges or rejection.

### GRADIENTS:

- To minimize banding on the disc avoid using gradients. Results **will** vary. Banding will occur between 65% and 80%. The best gradient is one from 55% to 0%.

### HALFTONES:

- Limit to a range of 15% to 80%. Halftones out of this range do not reproduce well. Halftones 15% and under will begin to disappear, 80% and over will tend to turn solid.
- Please remember, since this is not a solid color you will be able to see the little dots that make up the halftone.
- Halftones have a possibility of developing patterns throughout the run.
- Halftones of some colors, such as dark blues or greens may look gray or black.

### LIMITATIONS OF 4 COLOR PRINTING:

- A digital disc is made of plastic with metalization added. It has different printing and ink absorption properties than paper.
- Process color (sometimes referred to as 4 color process or CMYK) uses percentages of Cyan, Magenta, Yellow, and Black layered on top of one other to create the multitudes of colors present in the spectrum.
- As a general guideline, designs with flat colors and fewer gradations are best captured in spot color whereas photographic images are best captured in process color.

### LINE ART:

- Line weight should have minimum weight of .36 pt. (.127mm or .005") and be line based (in vector graphics).

### MEDIA:

- E-mail, CD-R, DVD-R, USB flash drive (with identification labels) or uploads to the GLMT ftp site (please contact your representative for more information).

### METALLIC AND PEARLESCENT INKS:

- Metallic inks are available for an additional charge. It is encouraged that these be used sparingly. Metallic inks go through a different printing process than regular CMYK and PMS inks. Halftones are strongly discouraged and results will vary. Please contact the art department with any questions.

### MONITOR VERSUS PRINT:

- A design viewed on a computer screen is in RGB, a color process only used for monitor display (i.e. televisions, computer screens, etc...). The RGB process is capable of projecting brilliant colors which are unavailable in the CMYK print world. An electronic RGB file cannot be used to match a printed piece. All RGB files need to be converted to CMYK before being submitted for print or results may not be as expected.

### SPOT COLORS:

- Spot colors use the Pantone Matching System (PMS) to mix specific colors. These colors are mixed then matched per the Pantone swatchbook.
- Spot color printing is perfect for text and vector based graphics. It is excellent for matching logo colors.
- Spot colors printed on a disc may vary from the PMS book because we are printing on a plastic silver surface rather than a white paper surface. Printing a full white flood under spot colors will help them stay more consistent with the Pantone book. Care is taken to match PMS colors as closely as possible but slight color variations may occur.

- Specify all colors, up to 5 if also using a white flood, used in supplied artwork using the Pantone Matching System (PMS) Solid Coated library. All colors (including black & white) count as 1 color each because the surface of the CD starts out silver. Since most colors are semi-transparent, color shifts may occur when printing on the disc surface. For the closest color match we recommend printing on a white flood.

- For frosted/branded discs please use 100% black for the frosted ink and leave white as the shiny silver of the disc. Please make a note in your art file indicating which color represents the frosted ink.

### TEMPLATES:

- Please keep the templates on a separate layer, especially in Photoshop files. Do not make templates a part of your art work. They will print on the disc.

### MOST COMMON PROBLEMS WITH ELECTRONIC FILES:

- Fonts are not included.
- Supporting files are not included.
- Files are supplied in RGB (not suitable for printing).
- Spot color files are supplied in 4 color process (in some cases we are able to convert your artwork but the color may shift dramatically).
- Art is not supplied or approved on time.
- The template is part of the art file (we cannot remove the template once it is part of your flattened Tiff or Photoshop EPS file. It will print unless you place it on a separate layer).
- No bleed is provided in the electronic art file.
- The files are low in quality.
- The files are supplied in the wrong format (we cannot use any files saved in programs not listed above including word processing or spreadsheet programs).

### Screenprint vs Offset:

- Screenprinting is recommended in all cases where color matching is necessary. It is difficult to match printed materials and offset-printed discs.
- Screen printing is best suited for solid colors and rich, vibrant art. Offset is best used for fine-detail photographs and softer colors.

### Note:

If art files are supplied out of our specification range, additional charges will apply and your ship date will not be guaranteed. If art is supplied and changes are requested we will assume you are authorizing art charges. While GLMT does not accept responsibility for file archiving, we do try to archive everything for up to one year of the last order.