



MorphiusDisc Manufacturing

ON CD FILM SPECS

- Film positive, right read, emulsion up.
- 1200 dpi (standard resolution).
- 120 lines per inch.
- Dot type = elliptical.
- 100% to scale.
- Only Pantone PMS Spot colors should be used for your on-CD art (unless you plan to print on-CD art using a full--Color Offset Process. If so, please call us ahead of time for assistance.
- PMS color must be indicated on each film.
- Printing of two PMS colors on the CD is included. Additional spot colors will be extra.
- A "white flood" or "underprint" (if desired) will be considered one of your 2 colors.
- Please select Specification A,B,C, or D sizing unless you wish to provide an additional film for any underprint color. Other underprint sizes will require the output of an additional film.

Text Size:

one color only
= 4pts minimum (positive)
= 5pts minimum (reverse text)

two colors
= 4pts minimum (positive)
= 7pts minimum (reverse text)

Line Width:

positive print - 0.10 mm (0.004 in.) minimum
reverse print - 0.15 mm (0.006 in.) min.

*1.5 pts. between letters
please avoid old style/serif and light fonts

*Please be aware that for specs B, C and D there are minor color deviations between the print on the aluminum coated (46mm-116mm diameter) and the non-aluminum coated parts of the CD (inside

46mm diameter). Therefore, we recommend the preprinting of an entire white background on the printing area for best results.

Silk Screening Compensation:

If your CD label design uses halftoning, it is essential that you use silk screening compensation when you create the label films (for printing on the CD only); the compensation amounts (for use with 120 lpi film) are shown below. You can set these percentages in Photoshop, by accessing the transfer function in page setup, overriding printer defaults, and setting the available percentages to the values above.

When reaching 40% and 70%, a slow transition (35, 40, 45, and 65, 70, 75%) is recommended. We recommend you avoid sharp contrasts (20-50%) (50-80%)

To print:

0%, density of film must be	0%
5%, density of film must be	7%
10%, density of film must be	12%
15%, density of film must be	17%
20%, density of film must be	23%
25%, density of film must be	28%
30%, density of film must be	35%
35%, density of film must be	40%
40%, density of film must be	45%
45%, density of film must be	50%
50%, density of film must be	55%
55%, density of film must be	60%
60%, density of film must be	65%
70%, density of film must be	70%
75%, density of film must be	73%
80%, density of film must be	75%
85%, density of film must be	80%
90%, density of film must be	86%
95%, density of film must be	90%
98%, density of film must be	94%
100%, density of film must be	100%

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P.O. Box 13474, Baltimore, MD 21203, phone 410-625-6195, fax 410-625-6196
info@morphius.com www.morphius.com



Full-Color Process Screen Printing and Offset Printing:

- Prior to submitting film for full-color screen printing (CMYK) on your discs, please call us to confirm your understanding of our specifications.
- Several options for high definition offset printing on your CDs are also available. These options are more costly and film specifications & file preparation instructions differ significantly, so please call us before outputting films if you desire this type of printing on CDs.

Disks:

We accept files on the following disk types only: Zip 100 and 250, Syquest 44, 88, and 200, Recordable CD-R, and 1.4mb Floppies only. Mac or PC discs are both acceptable. Other types of media like EZ Syquest and Jaz discs may incur a transfer charge, so please call in advance.

Color Proofs:

A color proof of some type must be included with your disk unless your art is black and white only, in which case a B&W print will be OK. Without a color proof, we will have no idea what your file should look like when correctly opened and cannot accept responsibility for missing or altered information without sending a proof to you for approval (at your expense and causing an increase in length of time to process your order).

For further details or assistance? Visit www.morphius.com, go directly to www.morphius.com/manufacturing/mfgtutorial.html to view our tutorial on preparing your files, or call 410-625-6195.