



# Material Guidelines

| Material                        | Raster Engraving |       |       |            | Vector Cutting |       |           |
|---------------------------------|------------------|-------|-------|------------|----------------|-------|-----------|
|                                 | Thickness        | Speed | Power | Resolution | Speed          | Power | Frequency |
| Acrylic                         | 1/8 in           | 100%  | 25%   | 600 DPI    | 20%            | 100%  | 5000      |
|                                 | 1/4 in           | 100%  | 25%   | 600 DPI    | 12%            | 100%  | 5000      |
|                                 | 3/8 in           | 100%  | 25%   | 600 DPI    | 5%             | 100%  | 5000      |
| Alumamark                       | -                | 100%  | 15%   | 600 DPI    | Do Not Cut     |       |           |
| Aluminum                        | -                | 100%  | 30%   | 600 DPI    | Do Not Cut     |       |           |
| Brass, Painted                  | -                | 100%  | 20%   | 600 DPI    | Do Not Cut     |       |           |
| Brass, Marbelized Painted       | -                | 100%  | 25%   | 600 DPI    | Do Not Cut     |       |           |
| Cardboard, Corrugated           | 1/8 in           | 100%  | 45%   | 600 DPI    | 30%            | 15%   | 500       |
| Cardboard, Solid                | 1/8 in           | 100%  | 60%   | 600 DPI    | 20%            | 25%   | 500       |
| Chipboard                       | 1/8 in           | 100%  | 60%   | 600 DPI    | 20%            | 65%   | -         |
| Corian/Avonite                  | 1/8 in           | 85%   | 100%  | 600 DPI    | Do Not Cut     |       |           |
| Delrin Seals                    | -                | 100%  | 20%   | 600 DPI    | 60%            | 75%   | 5000      |
| Foam Core                       | 1/8 in           | 100%  | 40%   | 600 DPI    | 40%            | 30%   | 500       |
| Glass                           | -                | 85%   | 100%  | 600 DPI    | Do Not Cut     |       |           |
| Laserable Plastic               | -                | 100%  | 20%   | 600 DPI    | 30%            | 30%   | 5000      |
| Leather                         | 1/8 in           | 100%  | 15%   | 600 DPI    | 60%            | 80%   | 500       |
| Marble                          | -                | 100%  | 65%   | 600 DPI    | Do Not Cut     |       |           |
| Mat Boards                      | -                | 100%  | 60%   | 600 DPI    | 50%            | 30%   | 500       |
| Medium Density Fiberboard (MDF) | 1/8 in           | 70%   | 15%   | 600 DPI    | 70%            | 15%   | -         |
| Melamine                        | -                | 100%  | 60%   | 600 DPI    | Do Not Cut     |       |           |
| Paper                           | -                | 90%   | 10%   | 600 DPI    | 90%            | 10%   | 500       |
| Rubber/Stamps                   | -                | 60%   | 100%  | 600 DPI    | 40%            | 100%  | 100       |
| Wood (Cherry/Alder/Walnut)      | 1/8 in           | 100%  | 80%   | 600 DPI    | 30%            | 40%   | 500       |
|                                 | 1/4 in           | 100%  | 80%   | 600 DPI    | 20%            | 75%   | 500       |
|                                 | 3/8 in           | 100%  | 80%   | 600 DPI    | 12%            | 100%  | 500       |