



## Freeman Purple Machinable Wax

### Description

Freeman Purple Machinable Wax is non-abrasive, non-toxic, self-lubricating and able to be glued. It is used for proofing NC/CNC machining programs, NC/CNC system set-up and training aid material. Freeman Purple Machinable Wax machines easier than plastic tooling boards or metals without sacrificing quality of finish, surface detail and dimensional accuracy. This makes it an excellent material for accurate molds and prototypes.

### Physical Properties

|   |                      |
|---|----------------------|
| Color (visual)                              | Purple               |
| Specific Gravity                            | 0.92                 |
| Ash Content                                 | 0.01%                |
| Hardness (Shore D)                          | 52                   |
| Softening Point                             | 222° F               |
| Volumetric Shrinkage @ Room Temp.           | 7%                   |
| Coefficient of Thermal Expansion (in/in/°F) | $9.5 \times 10^{-5}$ |

### Machining Parameters:

|                                  |                       |
|----------------------------------|-----------------------|
| <i>Roughing</i> - Spindle Speed  | 3,000 RPM             |
| Feed Rate                        | 100 in. per minute    |
| <i>Finishing</i> - Spindle Speed | 8,000-10,000 RPM      |
| Feed Rate                        | 40-100 in. per minute |

- Data obtained using a 1/2" ball end mill

### Ordering Information

Freeman Purple Machinable Wax is available exclusively through its own dedicated website at [www.machinablewax.net](http://www.machinablewax.net)

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