



# Technical Data Sheet

## Freeman T-7450 Tooling Board

### Description

The Freeman T-7450 is a high density tooling board that exhibits excellent physical characteristics. Offering high abrasion and impact resistance as well as good edge definition and a superb machined finish, the T-7450 is well suited to applications ranging from fixtures to master models.

### Physical Properties

Color	Grey
Hardness (Shore D)	83
Density (g/cc)	1.20
Density (lb./ft. <sup>3</sup> )	75
Compression Strength (psi)	9,573
Flexural Strength (psi)	10,298
Temperature Resistance (°F)	167
Coefficient Thermal Expansion (in/in/°F)	27.8 x 10 <sup>-6</sup>

### Machining

Machining parameters listed are starting points. Cutter type, material, spindle speed, feed rates, and other factors will determine machining results.

Roughing Speed	Roughing Feed	Finishing Speed	Finishing Feed
1,600 RPM	40 IPM	10,000 RPM	100 IPM

Cutters:      **Roughing** 1" Ball End mill, 4-Flute, Carbide  
                  **Finishing** 5/8" Ball End mill, 2-Flute, Carbide

Depth:        **Roughing** Varies from 1/4" to 2-1/2" deep with 40% stepover  
                  **Finishing** 1/8" deep leaving 0.002" scallop height

The user shall determine the suitability of this product for their application and assumes all risks and liabilities associated with the use of this product. The exclusive remedy for all proven claims is replacement of our materials only and in no event shall Freeman Mfg. & Supply Co. be liable for special, incidental, or consequential claims.

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