

Automotive

Design Grade



Model Design Material

MB3000

Model and Tooling Plank

Model and Tooling Plank MB 3000 is a dense, highly machineable, dimensionally stable tooling plank for today's CNC machining applications. As an advancement over similar products on the market, MB 3000 yields low dust emission during machining, less abrasiveness to CNC cutters, and affords the user a highly defined surface finish.

MB3000 has these great qualities:

- * Excellent machinability, Low dust emission
- * No shrinkage, Low moisture absorption
- * No grain, Excellent surface finish

Features:

Density(lbs/ft³; gms/cm³): 45/72
 Hardness: 65D
 Tg (°F): 208
 Compressive strength: 4,440
 Heat Distortion (°F): 179
 CTE (in/in/°F): 58.21x10⁻⁶
 Color: Mahogany (Brown)
 Sizes: 2"-4"x16"x60" and 1"-4"x24"x60"
 Adhesive: DP-11-88



BP5700

Blehm epoxy clay compounds are two part systems, which when mixed together form into a soft, dough-like consistency and cure to a hard solid with excellent toughness and dimensional stability.

- * Easy to carve
- * Can be modeled by hand as curing with clay tools
- * Easily cut or Tooled using Knives or NC equipment.

Features:

Mix Ratio(by wt.): 100:100
 Working Time: 120 minutes
 Cure Time: 24 hours
 Coverage (cu. in/gal): 235
 Density (cu. in/lb.): 46.9
 Hardness (Shore D): 55
 Color: Gray



Prototype Materials

BC8782 Ultra Clear

BC 8782 produces a high impact rigid 82 Shore D material that is commonly used to make clear or tinted castings of all kinds. When used at room temperature castings 1/8" thick or larger can be readily cast. Castings that are less than 1/8" thick generally require a mild post-cure. Easily tintable using BCC color tints. This system is not recommended for use with tin cure silicones.

Features:

Mix ratio: 100:85 by wt.
 Mix ratio: 100:88 by vol.
 Pot life: 12-14 minutes
 Viscosity (Mixed) 650cps
 Demold time: 6-8 hours
 Hardness (shore): 82D
 Color: Clear

BC8163 Proto-Kast

BC 8163 is a very low viscosity, rapid setting, rigid urethane compound. This system will cure quickly to a hard, tough, impact resistant casting. BC 8163 is non-sensitive to moisture after cure and will readily bond to itself if stage pours are required. The one-to-one volume mix ratio makes the system readily adaptable for machine mixing and dispensing. BC 8163 is recommended in applications where a "thermoplastic feel" is desired.

Features:

Mix ratio: 100:96 by wt.
 Mix ratio: 100:100 by vol.
 Pot life: 2-2.5 minutes
 Viscosity (Mixed) 100-150cps
 Demold time: 20-60 minutes
 Final Cure: 7days
 Hardness (shore):78D +5
 Color: White



Repair Making Materials

BC4544

Carvable wood filler, the most amazing quickset filler ever developed for the pattern and model making industry. A lightweight thixotropic paste which when cured, exhibits unsurpassed carvability without dulling tools. Ideal for engineering changes as well as filleting and buildups of patterns and models. Other uses include marine and furniture repairs. Available in mahogany and pine coloring.

Features:

Mix ratio: 100:1 or 100:2
 Pot life: 6-12 minutes
 Viscosity: Thixotropic Paste
 Cure schedule: 20-60 minutes

BC4553

Instant Buildup Material, designed for repairing plastic surfaces and models. Recommended for SMC and FRP parts, Vacuum forming molds and a variety of surfaces. Produces a hard, strong chip resistant and tack free surface.

Features:

Mix ratio: 100:1 or 100:2
 Pot life: 5-10 minutes
 Viscosity: Thixotropic Paste
 Cure schedule: 20-60 minutes

BCC Products Inc./Blehm Plastics

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