

# TECHNICAL BRIEF

The One-Source Solutions Provider  
DESIGN | FORMULATE | COMPOUND | MOLD | FINISH  
Thermoset Composites

## HVAC Applications

Mar-Bal provides materials engineering and compounding fully controlled by our in-house, state-of-the-art laboratory. Our engineered composite materials have excellent performance characteristics which make them well suited for a wide variety of applications including heating, ventilation and air conditioning - HVAC Applications.

Mar-Bal's material engineering team can customize a material to fit your application and meet your exact specifications.

Thermoset composite formulations deliver:

- UV Resistance
- Sound Dampening
- Anti-microbial Properties
- Heat and Fire Resistance
- Chemical and Corrosion Resistance

Mar-Bal's mechanical engineering team can design a custom part that can provide for parts consolidation and function with molded-in inserts and eliminate secondary processing. The designs will maximize molded dimensional accuracy and deliver:

- Molded-in Color
- Tight tolerances
- Low-post mold shrinkage
- Repeatable moldings





**Achieving high retention levels of mechanical properties and color stability following aggressive heat and life cycling tests provide customers with the material of choice for demanding applications.**

**Low post mold shrinkage technology provides part to part dimensional repeatability for ease of assembly and function.**

**Due to increasing commodity prices, Thermoset composites have been used to replace metals while delivering superior mechanical and electrical properties.**

**Consolidated parts and function can be achieved with thermoset composites with molded -in inserts and the elimination of secondary processing.**

Headquartered in Chagrin Falls, Ohio, Mar-Bal is a compounder and molder of thermoset composite products. Since 1970, Mar-Bal has engineered and manufactured quality, customized materials and parts. Mar-Bal serves the appliance, electrical and industrial marketplaces from its four facilities in North America and its Asia Sales Office located in Shanghai, China.

Mar-Bal, an ISO 9001:2008 registered company, has a portfolio of brands and proprietary products, and continues to develop innovative products while maintaining a commitment to client satisfaction and total value.

Contact Mar-Bal today and learn how thermoset composites can be a solution for you.

For more information about capabilities and innovative solutions including injection, compression and transfer molding of BMC, SMC, polyester, phenolics and epoxy, contact Mar-Bal.

**440-543-7526    [mar-bal.com](http://mar-bal.com)**

**Appliance | Electrical | HVAC  
Lighting | Transportation | Industrial**



*Innovative BMC and SMC chemistries allow for excellent UV and stain resistance, anti-microbial properties and also provides for noise dampening with long lasting structural*

**OHIO PLANT**

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Chagrin Falls, OH 44023  
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Fax: 440-543-4374

**VIRGINIA PLANT**

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Dublin, VA 24084  
Phone: 540-674-5320  
Fax: 540-674-5328

**MISSOURI PLANT**

101 Commerce Drive  
Cuba, MO 65453  
Phone: 573-885-4064  
Fax: 573-885-4555

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