



Thermoform Optically Clear Parts on Molds Machined from Ren Shape Boards

To quickly and cost effectively thermoform up to 500 optically clear, thin-walled trays used for medical supplies, Alga Plastics, Cranston, Rhode Island, relies on molds machined from Ren Shape[®] 5169 board. The board, manufactured by the RenShape Solutions[®] Tooling Group of Vantico A&T US Inc., East Lansing, Michigan, and supplied by CMT Materials, Inc., Attleboro Massachusetts, Alga's thermoform tooling material specialists, provides Alga with the cost-effective performance it needs including:

- Easy machinability with carbide ball end mills
- Outstanding non-porous surface finish
- Excellent abrasion resistance
- High tensile and compressive strength
- Good heat resistance

According to David Lizotte, tooling fabrication coordinator at Alga, "Vantico's red tooling board is ideal for thermoforming accurate, optically clear medical and electronic packaging and trays, even with walls as thin as 0.010 inches, using thermoplastics including polyvinyl chloride (PVC), polyethylene terephthalate (PET), glycol-modified PET (PETG) and polystyrene (PS). Even on deep draw parts, we maintain uniform wall thickness with the Ren Shape tools."

A further benefit of the durable tooling board is its ease of modification. Ren Patch[®] color-matched repair paste is specially formulated for easy handling and application to Ren Shape 5169 boards. For design changes, a mold section can simply be routed out, filled with Ren Patch and remachined to new dimensions.



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For more information about Ren Shape 5169 board, contact CMT Materials, Inc., a full-service thermoform materials manufacturer and distributor, today