Delvie's Plastics Inc.

www.delviesplastics.com

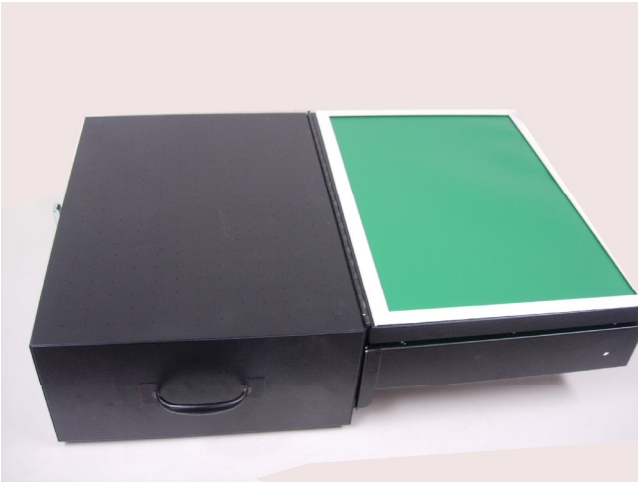
10_B Vacuum Former

Vacuum forming is a process where a sheet of plastic is heated until it becomes "rubbery", it is then formed over an object and a vacuum is used to pull the rubbery plastics around the object.

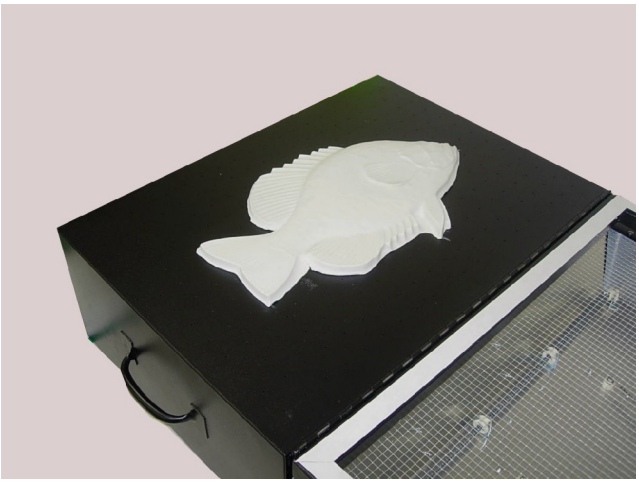
Our 10-B vacuum former is a self contained, portable vacuum former system that can be used for many applications. It contains both the heating element and vacuum in the same unit that folds up for easy storage and portability.

The unit easily unfolds when it is ready to be used. On the right side is the heating element, on the left the vacuum table. A sheet of thin plastic is placed inside material holder and it is clamped into place.

We are using a sheet of .020 green high impact polystyrene that has been clamped into the material holder. The material holder swings 180 degree between the heating side and the vacuum side. The sheet will be heated to approx. 240F when it becomes rubbery and formable.

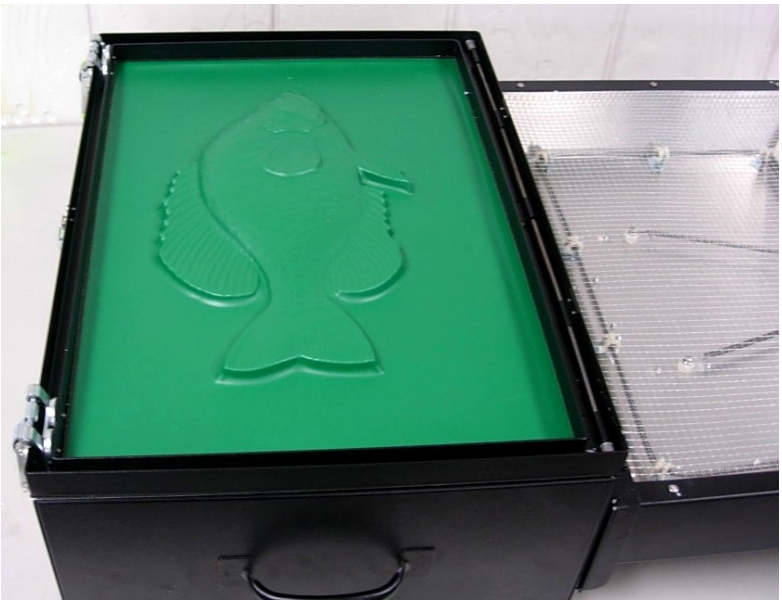


The sheet of styrene is now placed over the heating area and the heating element is turned on. There is a 3 position switch used with this unit, off/heat/vacuum. Once the switch is set to heat the element heats up and the green styrene is heated. The process takes approx. 1 to 2 minutes before it is rubbery and ready to be formed.



We have placed a fish made from plaster and placed it on the vacuum side of the former. This is the object we are going to form the green styrene around.

Once the green styrene is heated, you can tell by poking the sheet with your finger, it is flexible and rubbery. The material is holder is moved to the vacuum side of the unit.



When the vacuum is turned on the material is pulled around the object you are forming and the sheet quickly cools.