

Materials for 1 Project:

Tile Mold Options

<u>Item #</u>	<u>Description</u>
80649	4" Square Tile Casting Mold
80650	6" Square Tile Casting Mold
77842	Color Blender/Mosaic Tile Maker Casting Mold
77843	Tile Maker Casting Mold
77816	Floral Tile Casting Mold
77817	3"x6" Floral Tile Casting Mold
80607	Dragonfly Tile Casting Mold



Teacher's Note; these tile casting molds listed above are not a necessity for creating fused glass tiles. You may also hand-cut glass to any tile size or shape and fuse as normal-see Delphi Fusing Instructions.

Optional Glass Cutting Supplies:

<u>Item #</u>	<u>Description</u>
5104	Toyo Glass Cutter
5068	Running Pliers
5163	Safety Glasses

Teacher's Note: use fusing photo paper to scan images onto and fuse onto your tiles, this not only allows you to personalize your tile in a special way but also can act as a guideline for adding more layers (i.e. landscape pictures, floral and other images).

Other Optional Supplies

<u>Delphi Item #</u>	<u>Description</u>
8301	Fusing Photo Paper

Directions:

1). Preparing the Mold

- a). Clean previously used molds by using a soft brush like an old tooth brush; something that will not mar or take away any of the fine detail inside the mold.
- b). Washing- 4-5 layers of Hotline Primo Primer mixed 1 part powder to 5 parts water. Wait a couple of minutes between layers.
- c). Drying – be sure the kiln wash/primer on the mold has plenty of time to dry. You may dry in the kiln by ramping up 500°F/hour to 550°F for 20 minutes – cool but do not crash/rush to room temperature.

2). Filling the Mold

- a). Choose respective fine frit colors for desired project. All casting molds have suggested gram weights on the packages to help you fill each mold perfectly.
- b). Heaping the mold – be sure to keep the edges of the filled mold flush to the top of the mold and heap the frit in the center, since as air escapes this heaped portion on top will shift down accordingly.

3). Firing the Mold

a). If you desire air bubbles ramp kiln up 500°F/hour to 1435-1445°F, soak for 10 minutes and as fast as possible to 980°F, soak for 30-60 minutes. Use larger frit.

b). When desiring less obvious or fewer bubbles use the following firing recommendation-
500°F/hour to 1225, soak 20 minutes
50°F/hour to 1275, soak 20 minutes
300°F/hour to 1440, soak 20 minutes

And then, as fast as possible to 980°F, soak 30-60 minutes

Do not flash vent

Use smaller frit; but the use of fine frit will produce tiny pin point bubbles that may be seen and powder will look opaque because of the tiny bubbles inherent with its size.

4). Demolding the Sculpture

a). Do not remove from kiln until at room temperature.

b). Invert over newspaper. Lightly tap if necessary.

c). May need to grind off sharp fins.

d). Rinse in warm water and scrub with soft brush to remove kiln wash.

e). Be sure to scuff both the back of the glass as well as the bail and glue together with Triolyse.

5). Prepare Mold for next time

Follow instructions 1a from above.

For more Fusing and Casting instruction and project ideas:



Everything You Wanted to Know About Fusing...But Had No One to Ask

The first fusing and slumping book with a built-in stand, making it convenient to use while fusing. Includes information on what tools to use and when, do's and don'ts of setting up your studio, how to work with ceramic and stainless steel molds, tons of black-and-white photos, and much more!

Glass Kiln Casting with Colour de Verre

This introduction to frit casting techniques guides the beginner through from start to finish with easy-to-follow instructions and an abundance of color photos. This inspirational yet thoroughly practical guide presents lush photographs of beautifully finished pieces that will capture the imagination. The clear and simple instructions will enable fusers of any skill level to achieve amazing 3-dimensional creations. Topics include tools, materials and programming your kiln for ideal firing. 80 pages, with more than 260 color photographs.

