Make your own free standing personalised clock

Make yourself a personalised free standing clock with the Bend It Mould.

The following instructions enable you to make a personalised clock using the Bend It Mould (CPGM109).

You will need to following to create this project:

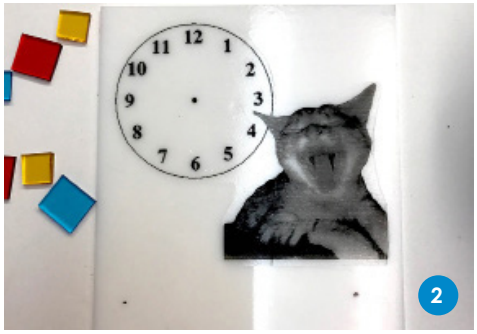
- Creative Paradise, Inc. mould CPGM109
- COE96 white sheet glass 5.5x8.25" (139x209mm)
- Photo transfer paper
- Black and white laser printer (with an iron oxide based toner)
- Scrap glass of various colours and opacities
- Papyros paper
- Water
- Sponge or soft wide brush
- Cutting tools
- Clock mechanism
- 1/4" dia. diamond core drill bit

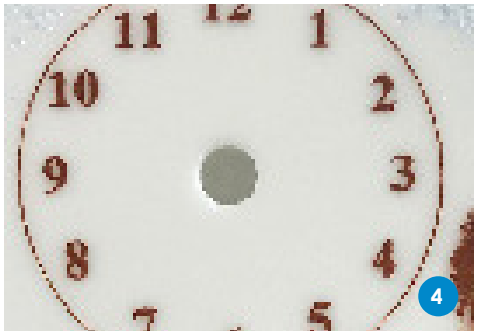
Ensure your mould is well primed before use

By using a primer this will prevent the glass sticking to the mould and potentially damaging the mould and the glass, make sure you use a small brush for detailed areas and dry thoroughly.

Creative Paradise highly recommend using ZYP a Boron Nitride spray due to the high temperatures required, this easy to apply spray can fire up to 982°C. Several light coats with a short waiting period of around 15 minutes between coats is preferable to one heavy coat. Shake the can well before use and hold the can upright while using to assure proper distribution of product. You will need to apply one light coat each time you fire.

The process





1 Create the images you would like to use

Use photo editing software to create a 3" clock face and a personalized image that is roughly 3" x 3". Find some clock faces on page 2. Work in gray scale to adjust the images to have clarity and contrast while monotone. Work to maximize the use of the photo transfer paper by filling the page with images before printing. Follow the printing instructions that come with the photo transfer paper.

Use scissors to cut closely around the image printed on the transfer paper.

Submerge the cut-out image in a water and allow it to soak until the decal begins to separate.

Transfer the decal from the paper backing onto the glass with the image facing forward.

Use a soft wide brush or sponge to smooth the decal onto the glass and displace air and water from beneath the decal on the glass.

2 Arrange your glass pieces on the clock

Take care to arrange the decal such that the clock face is not at an angle and that the decal is not below the bottom 2.5" of the glass.

Use your own artistic preferences and scrap pieces of glass to decorate the white glass around the decal and above the bottom 2.5" of the glass.

3 Fire to a tack fuse

Arrange the glass on a piece of kiln shelf paper in the kiln and fire using the schedule found in the tack fuse schedule below.

4 Drill the hole for the clock mechanism

Use a 1/4" core bit to drill a hole in the center of the clock face.

5 Fire again to slump over the mould

Place the fused glass on the CPGM109 Bend It mould and fire using the schedule found in the slump schedule below.

Stand up clock firing schedule - tack fuse

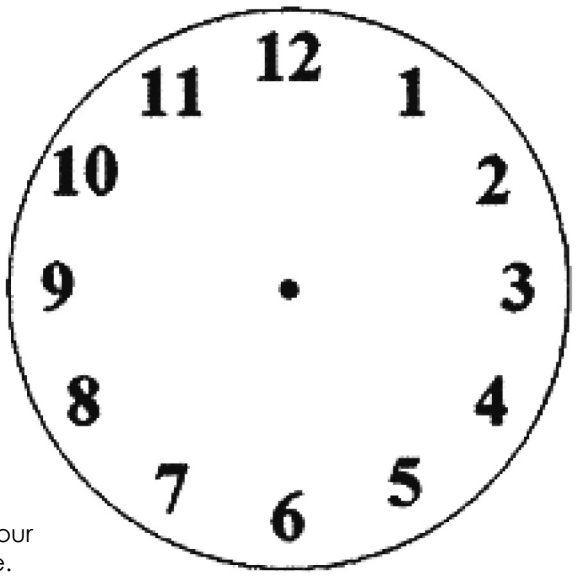
Segment	Rate Celsius/hr	Temp	Hold time (hr:min)
1.	83°C/hr	to 48°C	0:30
2.	152°C/hr	to 662°C	0:45
3.	208°C/hr	to 748°C**	0:05
4.	AFAP* OR 9999°C/hr	to 510°C	1:00

Stand up clock firing schedule - slump

Segment	Rate Celsius/hr	Temp	Hold time (hr:min)
1.	138°C/hr	to 657°C	0:30
2.	166°C/hr	to 682°C	0:45
3.	AFAP* OR 9999°C/hr	to 510°C	0:05

*AFAP = as fast as possible, some controllers will not allow a rate of 9999°C /hr
** Will vary depending on desired result and kiln

Note:
This data is a guide only, firing programs may need to be adjusted according to size and thickness of glass and the kiln's performance. Ensure that data is entered into the controller accurately, otherwise glass may not fuse correctly or paint will not fire onto the glass as desired. Creative Glass Guild sells all glass, tools and materials on the basis that customers have the knowledge and ability to use them safely and in accordance with all relevant regulations and legislation.



Print this actual size on your printer for the clock face.