

PolyMold Moldable Plastic Instructions

The MCM PolyMold Moldable Plastic is made from a type of plastic called polycaprolactone (PCL). PCL is non-toxic, biodegradable, and has a low melting point of 136-140°F (58-60°C). When melted, it becomes a moldable putty-like material. It is perfect for making models, replacement parts, robotics, toys, sculptures, and much more. Its plastic properties are similar to Nylon.

Heat-up PolyMold

Hot Water Method (recommended)

Heat water to approximately 150~170°F in a ceramic or metal container suitable for hot water. *Do not overheat.*

Place the desired amount of PolyMold beads into the hot water bath (*any excess can always be reused*). The beads will quickly become translucent and will bond together. Let soak for up to 2 minutes.

Remove the soft clump of plastic with a metal or disposable utensil (tongs, wooden kabob stick, etc.). The PolyMold is now ready to use.

Heat Gun (useful for reheating material already in use)

On a heat-safe surface, hold a heat gun or hair dryer on the material.

Once the material nears 140+°F, it will begin to soften. Continue to heat until the material reaches the desired moldable consistency. *Do no overheat.*

Mold PolyMold

Be careful, the material will be hot.

Simply mold the PolyMold plastic like clay. If a water method was used to heat the substance, the water will work itself out without thinning the material.

PolyMold can also be pressed into molds, cut, tapped (after hardened), and much more.

Use your imagination.

Harden PolyMold

The PolyMold will harden by itself as it cools and returns to room temperature.

To speed the process, dip the molded PolyMold into a bath of cold water.

Color PolyMold

To add some color to your PolyMold, add 1-10 pellets of the colorant (sold separately) to the batch of beads before you melt the PolyMold using the Hot Water method. Use the colorant beads sparingly.

TIP: Start with 1-2 beads, adding more later for richer colors. Feel free to mix colors to create new colors.

When you remove the PolyMold with colorant from the hot bath, knead the PolyMold until the desired color effect is achieved.

Reuse PolyMold

To reuse extra PolyMold, add additional colorant, or even start over on a project, simply heat it back up!

PolyMold Part Numbers

1kg PolyMold #21-12835, 500g PolyMold #21-12830, 250g PolyMold #21-12825, Five Color Colorant Kit #21-12865
Black Colorant #21-12855, Blue Colorant #21-12860, Green Colorant #21-12840, Red Colorant #21-12845, Yellow Colorant #21-12850