

**DESCRIPTION:** Poly Skin-Wax is a liquid at temperatures as low as 125°F and it is somewhat elastic after solidifying. Thus, it can be used as a mold making material using dip or brush-on techniques. Poly Skin-Wax has been formulated with non-toxic materials and is safe for skin contact provided that temperature is carefully controlled.

**MODEL PREPARATION:** When making a mold of a body part, coat skin and hair with baby oil before applying Poly Skin-Wax. Molds can only be made of body parts that are covered with short and light hair -- do NOT attempt to make molds from hairy areas. For most other non-porous models, Poly Skin-Wax is self releasing and, therefore, no release agent is needed. Make a small test mold on a surface identical to the model to determine that release properties and hardening of Poly Skin-Wax is suitable.

**PROCEDURE:** Use a therapeutic paraffin bath, available from medical supply stores, to melt Poly Skin-Wax. A crock pot can be used to melt Poly Skin-Wax; however, extreme caution must be exercised to ensure that the wax is not overheated. To melt Poly Skin-Wax, heat to 160 to 180°F. *Poly Skin-Wax must be cooled to 125-135°F before contact with skin!* Even this temperature may cause discomfort in some individuals. Do not use Poly Skin-Wax on sensitive areas such as the face. The wax must be just hot enough to produce good results; a few degrees hotter can cause considerable discomfort. Test judiciously on small areas.

Stir Poly Skin-Wax often during melting and use since temperature variations within an unstirred bath can result in solidified wax in one area of the bath while another area heats enough to cause burns. Monitor temperature in several places in the bath (e.g., near walls, bath center and at several depths). Use an accurate thermometer.

Apply Poly Skin-Wax by dipping the model, brushing on or slowly pouring over the model surface. For rapid cooling, immerse the wax-coated model in cool water between coats. Poly Skin-Wax can be reinforced by laying fabric such as cheese cloth onto the previous coat and then applying wax to saturate the fabric.

Although some flexibility remains in Poly Skin-Wax at room temperature, if considerable flexibility is necessary for removal of the model, it is best to remove it as soon as the wax cools into the elastic (temporarily deformable) state. For model shapes that do not allow removal with the mold intact, the mold may be carefully cut and later rejoined using a warm metal spatula or by "welding" with molten wax. Small air vents punctured in the mold using a pin or wire may help release the mold from the model; for example, in casting a hand, pinholes at the end of each finger facilitate removal of the hand. These holes can be sealed later with a dab of molten wax.

**SHELF LIFE:** For best results, store product at room temperature (60-90°F). Use products within twelve months.

**SAFETY:** Before use, read product labels and Safety Data Sheets. Follow safety precautions and directions. Do not heat with open flame. Do not heat above 300°F since vapors can ignite. Use with adequate ventilation. Do not use in the presence of sparks or open flame. Exercise extreme caution when applying Poly Skin-Wax to the skin. While Poly Skin-Wax is safe for skin contact, it is not recommended that repeated castings be made over a short period as the hot wax tends to remove skin oils and can cause irritation. For skin contact applications, avoid reuse of wax that may have absorbed irritating substances from casting materials.

**DISCLAIMER:** The information in this bulletin and otherwise provided by Polytek® is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained by the use thereof, or that any such use will not infringe any patent. Before using, the user shall determine the suitability of the product for the intended use and user assumes all risk and liability whatsoever in connection therewith.

## One-Part Mold Making Compound - Safe for Skin Contact

### Why Choose Poly Skin-Wax?

- One-part mold making compound
- No mixing - simply melt and use
- Fast - make a mold in 5 to 10 minutes
- Easily repaired with a dab of warm wax
- Flexible when warm
- Self-releasing from most surfaces
- Reusable

PHYSICAL PROPERTIES	
	Poly Skin-Wax
Softening Temperature	125°F
Use Temperature for Casting	125-180°F
Use Temperature for Skin Contact	125-135°F
Viscosity @ 180°F	190 cP
Specific Volume @ 77°F	31 in <sup>3</sup> /lb
Specific Volume @ 180°F	34 in <sup>3</sup> /lb

PACKAGING	
Product	Size
Poly Skin-Wax	5-lb Block