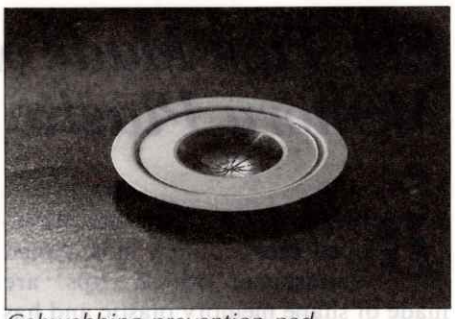
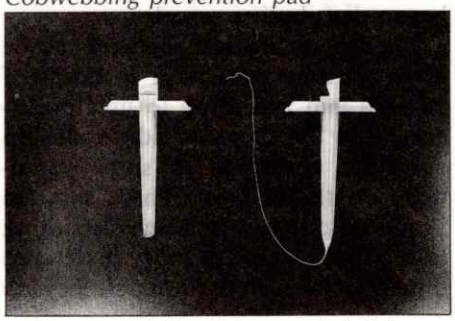


Cobwebbing prevention pad



Product molded with new pad (left) has no cobwebbing

90-1-007-425

Molding Pad for Preventing Cobwebbing

Shinko Sellbic Co., Ltd. has developed a pad for preventing cobwebbing (the forming of fine resin threads in the process of plastic molding) between a product and an injection molding machine's nozzle. Fitting this pad at the mold's plastic injection inlet causes the pad's central part to close to prevent cobwebbing when retracting the injection molding machine's nozzle after injecting the plastic material. This eliminates the extra work of having to cut off the cobwebbed part from the product, so work efficiency is substantially improved.

The central part of this disk-shaped pad made of copper alloy is cut with numerous radial grooves, and the plastic material is injected after inserting the nozzle by spreading these grooves. Retracting the nozzle after the injection causes the grooves to reconverge into the original shape by elasticity, which prevents cobwebbing.

The tip of the nozzle of an injection molding machine used to be provided with a cobweb cutter, but this mechanism is very expensive so it is not widely used, and there was a problem of the cobwebbed part being clogged between the mold to deteriorate molding accuracy.

This pad will be sold at a price of ¥3,600 (12 in a unit), each of which is usable for about 12 hours at a nozzle insertion frequency of once every 15 seconds. It can be replaced with ease simply by removing the adhesive tape fitted on one of its sides. The company is presently conducting research to develop a pad made of a shape memory alloy and using the heat of the plastic material.

* *Shinko Sellbic Co., Ltd.*
14-5, Hatanodai 3-chome, Shinagawa-ku, Tokyo
Tel: 03-785-7800 Fax: 03-785-7899