



## **Ingenious functional packs produced on thermoforming machines Large increase in productivity**

*The Japanese insecticide manufacturer Kincho is demonstrating that mothballs even have the potential to be popular lifestyle products. The success of its "Gon Gon α" mothballs is due to a skilful advertising campaign, and the attractive, highly functional packaging, produced on a Multivac thermoforming machine.*

### **Mothballs in a shell-shaped tray**

The packaging for the insecticide is a small, basically square PET tray that is closed by a two-layer upper web. The base of the tray is shell-shaped with the "Gon Gon α" logo embossed in it. Round ridges projecting upwards in the middle form a circular pocket to hold the mothball tablets.

The special functional feature of the pack is the two-layer upper web. The printed top layer closes hermetically, but is easy to pull off a second layer of transparent PE underneath it that stays on the pack: it keeps the mothball in place, prevents direct contact with clothing and – above all – represents an effective childproof closure. The material is, on the other hand, permeable to the active substances of the moth repellent.

### **Much higher productivity**

It is an expensive type of packaging for mothballs, which immediately raises the question of cost. This question was answered convincingly by the installation of a fully automatic Multivac R 530 thermoformer. This machine carries out 12 repetitions of 36 packs – a total of 432 packs - per minute, which is no small number. The R 530 also requires only a small number of operating staff, which lowered personnel costs significantly. Overall productivity rose significantly.

The high operational capacity of the R 530 complicates the precise positioning of the mothballs into the shells. With persistent fine-tuning, an automated 'pick and place' system was set up to match the timing of the machine and perfect synchronisation was achieved.



The R 530 is a thermoformer. First it makes packing moulds from a flexible or stiff lower web in the forming station: they are "thermoformed" using heat, vacuum and pressure. This process can even produce shapes as complicated as the Gon shell. The packs can then be filled manually or automatically from above. The packs are then hermetically sealed with a top film and separated from each other.

## About Multivac

Multivac is one of the world's leading manufacturers of machines for packaging food, sterile medical products and various industrial articles. The corporate motto "Better packaging" reflects the company's mission to supply every customer the best possible packaging solution by tailoring the machines systematically to meet the individual production and product requirements. The extensive product range consists of thermoforming machines, traysealers and vacuum chamber machines. Over 30 subsidiaries and more than 40 agents on all continents provide a comprehensive service and sales network for customers.

Multivac's corporate history started literally in a garage. Today the Multivac Group has more than 2 000 employees around the world, about 1 000 of them at the main location in Wolfertschwenden (Allgaeu / Germany), where the design and production of all machines are concentrated. More than 100 000 Multivac machines have been sold worldwide since the company was established in 1961.

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