

Solid silicone processing (HTV)

Comparable to children's modelling clay - this is the figurative description of the consistency of solid silicone. This material offers a number of technical application advantages with respect to a two-component liquid silicone. „On the one hand, it is the significantly lower temperature sensitivity. The solid silicone can be stored and processed at normal room temperature“ starts Dominik Henn

his explanations on the processing of this material on BOY injection moulding machines. Dr. Patrick Messer, Head of BOY-Application Technology goes on: „*We process the solid silicone with a stuffing device that presses the material into the plasticising unit. The static mixer, which is mandatory for liquid silicone (LSR) processing, is no longer required.*“

The special feature of the BOY-stuffing device is its drive concept. Instead of the usual hydraulics, this development works fully electrically and is space-saving mounted on top the machine. „*The solid silicone can be processed comparably well as an LSR. With HTV, this happens via an elastomer unit,*“ reports Dominik Henn. Compared to elastomers, the silicones offer a wider temperature range for the end product as well as high purity - this is what medical technology demands. Solid silicone is frequently used in medical and electrical engineering, as well as in the field of automotive, etc.

At the K 2022, dental protective caps (four-cavity mould) were produced on a BOY 35 E with an electric stuffing device.



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