

Press Release



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SIGMASOFT® at K 2016 Hands-on Virtual Molding

At this year's K Show SIGMA Engineering is present with the motto "Hands-on Virtual Molding". Visitors receive first-hand information about the application possibilities along the complete product development chain; in this regard the fields of design, mold manufacturing and production are highlighted. Furthermore there is a sneak peek on future software developments.



Figure 1 – "Hands-on Virtual Molding" is SIGMA's motto at K 2016. Image by courtesy of Meridiano S.A.S.

Hands-on Virtual Molding

Aachen, August 8th 2016 – At the world plastics show K 2016, from October 19th to 26th, SIGMA Engineering GmbH surprises visitors at its booth B31, hall 13, with an entirely new perspective on its SIGMASOFT® Virtual Molding technology. Under the motto “Hands-on Virtual Molding” the usage along the complete development chain is highlighted – from part design, over mold manufacturing up to serial production. SIGMA furthermore offers a first outlook on future software developments, which include DOE (Design of Experiments) and an optimization tool.

To make the software potential visible to users, the fields of design, mold making and part production occupy center stage. The possible applications and technical challenges within these areas are demonstrated through practical examples. Amongst them is the bottle carrier mesh “Ursula” by CVA Silicone, which is presented in collaboration with the companies Momentive Performance Materials, CVA Silicone and Engel at the SIGMA booth. Visitors thus experience first-hand the consistency of reality and SIGMASOFT® Virtual Molding.

In another exhibit visitors also have the chance to experience virtual and real production: Momentive demonstrates in hall 6 at booth B15 their Silopren* LSR 2670 for a 2K-application in a 4+4-cavity mold from ELMET. The two component part of LSR on LSR is realized with just one dosing pump on an Arburg Allrounder 470 A. The virtual production to design the process is presented by SIGMA at its own booth.

Examples from thermoplastic processing are also on view. SIGMA shows, amongst other cases, the potential of SIGMASOFT® Virtual Molding to optimize warpage and deformation in technical parts together with F. & G. Hachtel. Visitors moreover have the possibility to discuss their own questions with the SIGMA engineers.

**Silopren is a trademark of Momentive Performance Materials Inc.*



runners with the complete mold assembly and temperature control system and incorporates the actual production process to develop a turnkey injection mold with an optimized process.

At SIGMA® and MAGMA®, our goal is to help our customers achieve required part quality during the first trial. The two product lines – injection molded polymers and metal castings – share the same 3D simulation technologies focused on the simultaneous optimization of design and process. SIGMASOFT® Virtual Molding thus includes a variety of process-specific models and 3D simulation methods developed, validated and constantly improved for over 25 years. A process-driven simulation tool, SIGMASOFT® Virtual Molding provides a tremendous benefit to production facilities. Imagine your business when every mold you build produces required quality the first time, every time. That is our goal. This technology cannot be compared to any other simulation approach employed in plastics injection molding.

New product success requires a different communication between designs, materials, and processes that design simulation is not meant for. SIGMASOFT® Virtual Molding provides this communication. SIGMA® support engineers, with 450 years of combined technical education and practical experience, can support your engineering goals with applications specific solutions. SIGMA® offers direct sales, engineering, training, implementation, and support, by plastics engineers worldwide.

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