

# RubberWorld

THE TECHNICAL SERVICE MAGAZINE FOR THE RUBBER INDUSTRY VOLUME 244, No. 3

**Achieving PVC properties in new medical TPE compounds**

**New high modulus silicone elastomer – fiber-reinforced LSR**

**An advanced non-toxic polymeric antimicrobial for consumer products**

**New, tailor-made precipitated silica grades for high performance silicone rubber**

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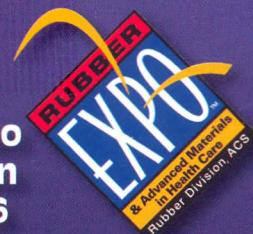
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Rubber Expo information on page 36



## FEATURES

### 16 Tech Service: Precipitated silica grades for high performance silicone rubber

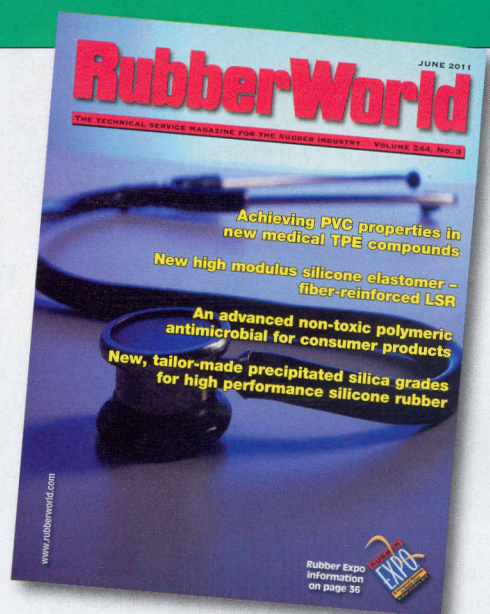
by Mario Scholz, Evonik Degussa. Newly developed grades of precipitated silica enlarge the product portfolio offered for the high end silicone rubber industry, and are suitable for HTV and liquid silicone rubber (LSR) and 2-C silicone rubber.

### 18 Achieve PVC properties in new medical TPE compounds

by Kevin Cai, Elliott Pritikin, Nick Sandland and Lisa Charno, Teknor Apex. Novel TPE compounds achieve high levels of performance and acceptance due to an approach that focuses on functional attributes rather than generating laboratory data.

### 22 Advanced non-toxic polymeric antimicrobial for consumer products

by Gerry D. Getman, Biosafe. HM 4100 (poly [trihydroxysilyl] propyldimethyloctadecyl ammonium chloride) is effective for controlling the growth of microbes on or in plastic materials, including thermoplastic elastomers.



### 27 High modulus silicone elastomer - fiber-reinforced LSR

by Oliver Franssen, Momentive Performance Materials, and Alexander Widmayr, Woco Industrietechnik. Fiber-reinforced LSRs offer a huge set of potential application benefits, if there is freedom to redesign parts and invest into alternative tooling and equipment.

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- Expanded instrumentation information
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