PRESS RELEASE

Number 58

K 2016: 20th International Trade Fair for Plastics and Rubber
WACKER Presents New Self-Adhesive Liquid Silicone Rubber with High Elastic Recovery

Munich, October 19, 2016 – At the 20th International Trade Fair for Plastics and Rubber K 2016, WACKER, the Munich-based chemical group, is presenting a new self-adhesive liquid silicone rubber that cures within a very short time to form an oil-bleeding elastomer with high elastic recovery. ELASTOSIL® LR 3072/50 is particularly suitable as a sealing in two-component molded parts. Typical areas of application include automotive electronics and electrical systems, where the product is used in single-wire seals and connector housings with radial seals applied by injection molding. K 2016 takes place in Düsseldorf, Germany, from October 19 to 26, 2016.

The new product expands WACKER’s ELASTOSIL® LR 3072 product line to include a material with high elastic recovery and extraordinarily low compression set. This means that when a molded part made from the silicone elastomer is compressed and then relaxes, deformation is kept to a minimum thanks to its elasticity and elastic recovery.

The compression set and thus long-term deformation of vulcanized parts made of ELASTOSIL® LR 3072/50 are only ten percent after 22 hours of storage at 125 degrees Celsius. They also retain their function at high temperatures. In addition, cured rubber products
made from ELASTOSIL® LR 3072/50 remain flexible and elastic at temperatures as low as -50 degrees Celsius. The new liquid silicone rubber grade is thus ideal for sealing applications in the engine compartment or car body.

With a Shore A hardness value of 50, cured rubber products made from the new oil-bleeding silicone are harder and, as a result, somewhat more rigid than existing grades in this product line. ELASTOSIL® LR 3072/50 reliably seals cable bushings and connector housings with lamellar radial seals, where the housing halves are designed to have a gap.

As a markedly shear-thinning, rapidly curing compound, the new liquid silicone is suitable for use in highly automated injection molding processes. Because it is formulated to be self-adhesive, ELASTOSIL® LR 3072/50 bonds to a number of thermoplastics, such as polyamide (PA) and polybutylene terephthalate (PBT), which are frequently used as the hard component of two-component molded parts. The silicone forms an outstanding bond without a primer coat – even on several metals. This means that the liquid silicone rubber can be molded directly onto these types of substrates in an injection-molding machine, provided the machine and the mold technology are suitable. The result is a fast, affordable means of mass producing thermoplastic/silicone-elastomer or metal/silicone-elastomer composite parts.

Once it has cured and adhesion has developed, ELASTOSIL® LR 3072/50 forms a thin film of silicone fluid, which lubricates the surface of the rubber. This means, for example, that customers can
easily thread a cable through an injection-molded, single-wire seal made of ELASTOSIL® LR 3072/50.

Visit WACKER at K 2016 in Hall 6, Booth A10.

WACKER, the Munich-based chemical company, is showcasing ELASTOSIL® LR 3072/50 at K 2016. The self-adhesive liquid silicone rubber delivers good elastic recovery and bonds well to several metals and plastic. Once cured, the elastomer bleeds fluid, which simplifies installation of connectors and other parts. (Photo: Wacker Chemie AG)
WACKER, the Munich-based chemical company, is showcasing ELASTOSIL® LR 3072/50 at K 2016. The self adhesive liquid silicone rubber is ideal for sealing applications in the engine compartment or car body. Typical areas of application include automotive electronics and electrical systems, where the product is used in single-wire seals and connector housings with radial seals applied by injection molding.

(Photo:Wacker Chemie AG)

Note:

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The company in brief:
WACKER is a globally active chemical company with some 17,000 employees and annual sales of around €5.3 billion (2015).
WACKER has a global network of 25 production sites, 22 technical competence centers and 50 sales offices.

WACKER SILICONES
Silicone fluids, emulsions, rubber and resins; silanes; pyrogenic silicas; thermoplastic silicone elastomers

WACKER POLYMERS
Polyvinyl acetates and vinyl acetate copolymers in the form of dispersible polymer powders, dispersions, solid resins and solutions

WACKER BIOSOLUTIONS
Biotech products such as cyclodextrins, cysteine and biologics, as well as fine chemicals and PVAc solid resins

WACKER POLYSILICON
Polysilicon for the semiconductor and photovoltaic industries

Siltronic
Hyperpure silicon wafers and monocrystals for semiconductor components