

high-temperature additives. Optimum service life is important, so as to maximise system availability and minimise production cost. The new EL 24 feed roller is designed specially to handle

such high loads, says the company. Long-time tests by a variety of customers subject to high loading on feed rollers have demonstrated that using the EL 24 results in four to five times longer life.

Energy cost-saving silicone foam sealants

Sonderhoff Chemicals has developed two new types of addition-crosslinking silicone foam sealants, **Fermasil 91** and **93**, which satisfy the high impermeability requirements of the industry, especially the sectors of automobile construction, electronics, and lighting. They harden at room temperature and are dry-to-touch after just 10–12 min. Therefore, they do not need an annealing furnace to cure and can help saving energy costs and additional production stages. The Fermasil 91 silicone foam system with a lower viscosity of up to 25,000 mPa·s has been developed for groove applications and the Fermasil 93 thixotropic system with a viscosity of 80–130,000 mPa·s for applications on even or inclined surfaces. The application process takes place with a two-component

low-pressure mixing and dosing system from **Sonderhoff Engineering**. Fermasil 93 has a compression set of < 15 %, while it is just < 10 % for Fermasil 91. The silicone foam sealings can be used at temperatures from – 50 °C to 180 °C, and even up to 350 °C in the short term. The mechanical and chemical properties of the sealings are also maintained under these extreme operating conditions, says Sonderhoff.

Fermasil 91 and 93 silicone foam sealants are tack-free at room temperature after 10–12 min.



Food grade mould release for silicone rubber applications

Axel Plastics Research Laboratories has launched the new water-based, semi-permanent mould release **Xtend W-3236FG**, that is especially suitable for moulding silicone rubber products that will come in contact with food. According to the company, the product is a non-hazardous, aqueous solution of proprietary resins and reactive surface modifiers that meet the EU Food Directive (10/2011) and

comply with food contact plastics under US Food and Drug Administration (FDA) 21CFR 176.170/21 and CFR 176.180. The mould release film created by Xtend W-3236FG is said to be long lasting and resistant to transfer, making it ideal for high production, injection, transfer or over-moulding. Parts moulded with the product will be clean and blemish-free, and ready for any secondary processes without cleaning, says Axel.

Heavy metal-free laser marking products

Laser Safe is a new generation of eco-friendly laser marking products supplied by **Eckart GmbH**, Hartenstein, Germany, that avoids the use of heavy metals. It allows for contrast and precise marking with high edge sharpness as well as a uniform representation of large areas. Laser Safe is ideally suited for bar codes, UID or 2D applications. The contact-free and permanent marker is used for applications such as coding, labelling, and product decoration as well

as for purposes of traceability of products and packaging. The pigments are suitable for all conventional laser technologies and for many different substrates.

Laser Safe is Eckart's new heavy metal-free laser marking product



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