

## Sonderhoff's FERMAPOR K31 polyurethane foam seal receives FDA approval for food packaging

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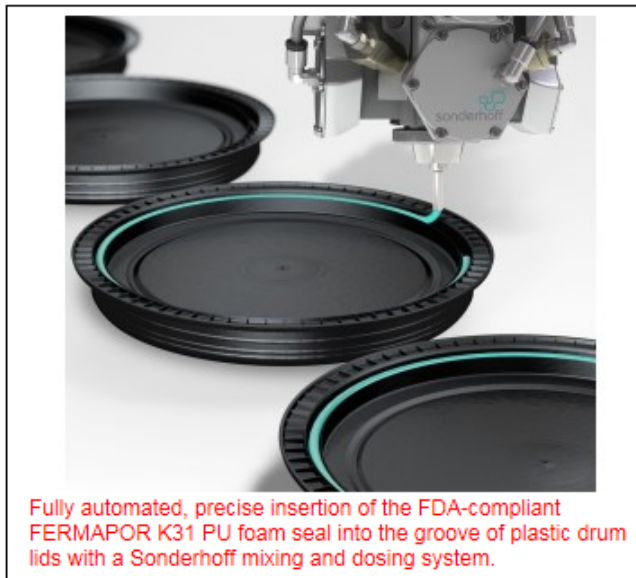
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(AL)

Sonderhoff announced that its new polyurethane (PU) foam seal in the FERMAPOR K31 product range received approval from the US Food & Drug Administration (FDA) conformity, which is considered to be the recognized standard for food packaging worldwide.

The PU seal is also approved for direct contact with food in accordance with the EU Regulation No. 10/2011 which entered into force on January 1, 2016.

The FERMAPOR K31 polyurethane foam with FDA conformity is used as a seamless lid seal for food containers with a filling volume from 2L. It is suitable for use in direct contact with aqueous, acid, alcoholic, fatty and dry raw food materials. This also applies for cold or hot filled or pasteurized milk and for milk products.



Fully automated, precise insertion of the FDA-compliant FERMAPOR K31 PU foam seal into the groove of plastic drum lids with a Sonderhoff mixing and dosing system.

According to Sonderhoff, the right ratio of the contact surface of the seal surface to the filling volume must be adhered to here:

- In accordance with Regulation (EU) No. 10/2011 (formerly EC No. 1935/2004): Contact surface max. 100cm<sup>2</sup>/5600 cm<sup>3</sup> (30 kg contents) for aqueous, acid, alcoholic, fatty and dry foods as well as milk and milk products

- In accordance with USFDA:

Contact surface max. 35mm<sup>2</sup>/dm<sup>3</sup> for all foods,  
Contact surface max. 93mm<sup>2</sup>/dm<sup>3</sup> for fat free foods

Experts from independent testing institutions certify that the values determined for total migration in the seal material are below the threshold value in the EU Regulation No. 10/2011 of 10mg/dm<sup>2</sup>. The odor and flavor as well as the appearance and consistency of the food contained in the lidded drums are not changed as a result.

"With the FDA conformity of our food-safe seal in the FERMAPOR K31 range, we are able to offer our customers in the food packaging industry around the world the price and technical advantages of a PU foam seal for the first time," said Peter Fischer, Head of Marketing at Sonderhoff.

The polyurethane-based FERMAPOR K31 lid seal with FDA conformity is characterized by low water absorption, optimal adhesion to plastic and metal, and outstanding long-term behavior of the seal effect. The foam seal in the lid groove is compressed when the packaging container is closed and returns almost entirely to normal. The tightness of the lid seal thus remains intact.

Sonderhoff noted that it has specifically improved the tear resistance and elongation at break of the FDA-compliant foam seal. Container lids sealed with the food-safe foam remain tight even with drops, shocks and vibrations.

The FERMAPOR K31 seal is applied automatically, precisely and seamlessly in the lid groove of drums and hobbocs using the Formed In-Place Foam Gasket (FIPFG) process.