75 FKM 38269

FKM is a high-quality material that can be used in the entire processing industry. In the food industry, FKM is selected when high operating temperatures prevail or media that would attack other elastomers such as EPDM or HNBR are employed. In the beverage industry, FKM is recommended for contact with pure citrus juices and milk products or use in aromatic oils. In the chemical and pharmaceutical industries, FKM is basically suited to applications with nonpolar solvents, aliphatic compounds, fats and oils.

75 FKM 38269 serves as a standard material for O-rings and is impressive above all other FKMs for its cold flexibility. Thanks to its approvals under FDA 21 CFR 177.2600 and EU Regulation 1935/2004, along with its classification in Class I of the 3-A® Sanitary Standards, this material is suited to the food industry worldwide. Red 70 FKM 37508, which has a USP Class VI approval and is thus suited to pharmaceutical applications, is used in the production of molded parts.

VALUES TO THE CUSTOMER

- Approvals for the food and beverage industry
- Good stability in CIP/SIP media
- Applications in a wide range of temperatures
- Resistance in steam at +160 °C (+320 °F)
- Employable in contact with fats, oils, nonpolar solvents, aliphatic compounds and flavorings

75 FKM 38269 PROPERTIES	
Shore A hardness (DIN 53505)	75 ± 5
Crosslinking	peroxide
Color	black
Range of temperature use	–25 °C to +200 °C (–13 °F to +392 °F)
Tensile strength (DIN 53504-S2)	23,7 N/mm²
Strain at failure (DIN 53504-S2)	240 %
ASTM D1329, TR10 cold value	–15 °C (+5 °F)
Compression set (ASTM D 395 B) 24 h/ +200 °C	19 %
Approvals	FDA 21 CFR 177.2600 EU Reg. 1935/2004 3-A® Sanitary Standards Class I
Material datasheet	

FEATURES AND BENEFITS

Certified quality
The material 75 FKM 38269 is well-suited to cleaning processes using CIP (cleaning in place) and SIP (sterilization in place) procedures.
In a series of immersion tests over the course of one week, the material proved to be resistant in static applications in both oxidizing and alkaline cleaning and disinfection agents.

GENERAL ATTRIBUTES

- Outstanding temperature resistance
- High chemical stability
- Very good resistance in mineral oils and fats
- Very good resistance in nonpolar media
- Increased swelling in polar solvents
- Suited for contact with foods