

## MATERIAL DATASHEET

03-75-0068

FPM – Fluororubber Genuine Viton® Typ A

Creator:

PFR

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### Description

Fluororubbers are mixed polymers of highly fluorinated hydrocarbons. Depending on the desired properties, up to four different types of monomers can be polymerized together to form a co-polymer. Due to this and the different cross-linking systems, a huge variation in composition is possible. Molded parts vulcanized from this material exhibit high thermal stability and very good resistance to many chemicals. Its gas permeability is also very low. In terms of fire behavior, this material exhibits good flame resistance. Please check the suitability of the material using the chemical resistance list.

### Properties

- ☐ Excellent resistance to ozone, ageing and weathering
- ☐ Unfavorable resistance to low temperatures
- ☐ Excellent resistance to heat up to +200 °C
- ☐ Good resistance to aliphatic, aromatic and chlorinated hydrocarbons, fuels, mineral oils and greases

### Typical applications

- ☐ Chemical, pharmaceutical and high vacuum applications

### Further information

- ☐ Viton® is the registered trade name of DuPont Performance Elastomers L.L.C. for fluoroelastomers

### Technical data

|                                          |                                  |         |             |
|------------------------------------------|----------------------------------|---------|-------------|
| Color                                    | black                            |         |             |
| Hardness                                 | ASTM D 2240                      | Shore A | 75 ± 5      |
| Specific density                         | ISO 2781                         | g/cm³   | 1.84        |
| Tensile strength                         | ASTM D 412                       | MPa     | 15.2        |
| Elongation at break                      | ASTM D 412                       | %       | 211         |
| Compression set<br>During 22 h at 200 °C | ASTM D 395 B<br>25 % deformation | %       | 18          |
| Temperature                              |                                  | °C      | -20 to +200 |
|                                          |                                  |         |             |
|                                          |                                  |         |             |
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|                                          |                                  |         |             |

### Conformities

- ☐ REACH (1907/2006)
- ☐ RoHS (2011/65/EU)
- ☐ ADI-free
- ☐ POP (EU 2019/1021)
- ☐ Latex free

### Reference to the author/disclaimer

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Seite 1 von 1