



# FKM / VITON MATERIAL DATA SHEET

**Material Type:** Genuine Viton®

Flow Smart Fluoroelastomer Rubber used in the manufacturing of sanitary gaskets has been tested and certified by Taxikon Laboratory to be in compliance with the criteria of the U.S. Pharmacopeia, Class VI Biological Test for Plastics.

**Application:** Provides high acid, steam and heat resistance. Seals are produced from this material for repeated use in the production of food and pharmaceutical products.

**Temperature Resistance:** Minimum Temperature -20 F°  
Maximum Temperature 410°F

| Property  | Test Method                                      | Results                   |
|---|--|---------------------------|
| Specific Gravity  | ASTM D4894-89a                                   | 1.8                       |
| Tensile Strength  | ASTM D412  | 2000psi                   |
| Elongation at Break   | ASTM D412  | 150%                      |
| Compression Set<br>24 Hrs at 392° F   | ASTM D395  | 17%                       |
| Heat Resistance<br>72 Hrs at 492° F<br>Hardness Change<br>Tensile Strength Change<br>Elongation at Break Change | ASTM 573<br>ASTM D1415<br>ASTM D412<br>ASTM D412 | ±10 °IRHD<br>±30%<br>-50% |
| Compressive Strength<br>at 5% Strain  | ASTM D695  | 2,620psi                  |
| Hardness  | ASTM D1415                                       | 80 Shore A                |

Data Applies to Sanitary Gripper Gaskets molded with Radel and Viton materials, Part Numbers:

| Size   | Blue Part No. | Red Part No. | Yellow Part No. | Green Part No. |
|--------|---------------|--------------|-----------------|----------------|
| 1/2"   | GR-V-BE-050   | GR-V-RD-050  | GR-V-YW-050     | GR-V-GN-050    |
| 3/4"   | GR-V-BE-075   | GR-V-RD-075  | GR-V-YW-075     | GR-V-GN-075    |
| 1"     | GR-V-BE-100   | GR-V-RD-100  | GR-V-YW-100     | GR-V-GN-100    |
| 1-1/2" | GR-V-BE-150   | GR-V-RD-150  | GR-V-YW-150     | GR-V-GN-150    |
| 2"     | GR-V-BE-200   | GR-V-RD-200  | GR-V-YW-200     | GR-V-GN-200    |

\*The preceding data gives the typical properties of the selected FKM material. These are typical properties and should not be used for specification purposes. This information is based on our experience to date and we believe it to be reliable. It is intended to be used only as a guide at your discretion and risk. Flow Smart cannot guarantee favorable results and assumes no liability in connection with the use of this product. None of this information is to be taken as a license to operate under, or a recommendation to infringe any patents.