

## Teflex-Genuine Viton® - Technical Data Sheet

### 1. Introduction

ERIKS Teflex O-Rings are composed of an original Viton® elastomer encapsulated in seamless FEP or PFA-cover. The elastomer works as a rubbermaterial and helps the slow recovery of the FEP or PFA-cover. The chemical resistance of FEP and PFA is almost the same as PTFE. FEP and PFA comply with the FDA and USP class VI regulations for contact with food and pharmaceuticals.

### 2. Product Description

Chemical Composition :

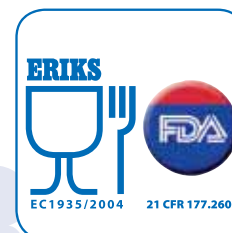
- FEP COVER: Copolymer of Hexa-Fluorpropylene and Tetrafluoroethylene
- PFA COVER: Perfluoralkoxy
- CORE: Copolymer Viton® A with 66% Fluor

Physical form : O-Rings  
 Colour : Core: Black / Cover: Transparent  
 Storage stability \* : Excellent

\* : Following ISO 2230 conditions

### 3. Physical Properties

Test Method	Norm	Test Values
Core: Genuine Viton®		
Specific Weight	ISO 2781	2,15
Hardness	ISO 868	75° ± 5° IRHD
Tensile Strength at break	ISO 37	10,7 MPa
Elongation at break	ISO 37	213%
Compression Set	ISO 815	
22h/175°C on slab		4,6%
24h/200°C on O-Ring (cord 5 mm)		10%
Air Ageing, 70h/250°C		
Hardness Change	ISO 188	+3°
Tensile Strength Change		+15%
Elongation Change		-29%
Immersion in Oil n°3, 70h/150°C		
Volume Change		+5,4%
Cover: FEP		
Tensile Strength	ASTM 2116	28 MPa
Fusion Point	ASTM D 3418	260°C
Cover: PFA		
Tensile Strength	ASTM 2116	28 MPa
Fusion Point	ASTM D 3418	305°C



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### 4. Temperature Resistance

- -20° to +200°C

### 5. Chemical Resistance

Concentrated acids	: very good
Acetone	: very good
Hydroxides	: very good
Benzol	: very good
Crude oil	: very good
Toluene	: very good
ASTM Fuel C	: very good
MEK	: very good
MTBE	: very good
Water	: very good
Steam	: very good

### 6. Advantages

- Excellent chemical resistance, comparable with that of PTFE
- Low compression set of the Viton® core
- Special dimensions available on short term

### 7. Other Information

- Other colours and elastomers available on demand
- FEP and PFA cover in conformity with Foods and Drugs Administration 21 CFR177.1550
- FDA 21 CFR177.2600 compliant Genuine Viton® quality available on demand
- FEP and PFA in conformity with U.S. Pharmacopeia (USP) class VI
- Hollow cord on demand
- This compound is ADI (Animal Derived Ingredient Free).

