

## MATERIAL DATASHEET

99-99-0585

Standard PFA encapsulated O-ring

Creator: PFR

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Date of change:

### Description

PFA is a thermoplastic copolymer material that is very similar to PTFE in terms of its properties. This material is used for the seamless encapsulation of O-rings. The encapsulated O-rings have an elastic core made of fluororubber FPM (Viton®), ethylene propylene rubber EPDM or silicone MVQ. The outer cover provides the seal with extremely high chemical resistance.

### Properties

- High resistance of the sheathing protects the elastic core from the contact medium
- Excellent resistance to ozone, aging and weathering
- Excellent chemical resistance

### Typical applications

- Chemical, medical & pharmaceutical, food and high vacuum applications

### Further information

Technical data			
Shell PFA			transparent
Tensile strength	ASTM D 638	MPa	30 – 40
Elongation at break	ASTM D 638	%	350 – 450
Specific density	ASTM D 297	g/cm <sup>3</sup>	2.12 – 2.17
Melting point	ASTM D 3418	°C	+302 – +310
Core MVQ, FPM, EPDM			red, white or black
Temperature core and shell		°C	-60 – +205
Temperature core and shell		°C	-20 – +140
Temperature core and shell		°C	-40 – +130
Hardness core and shell		Shore A	85 – 95

### Conformities

- FDA compliant 21 CFR § 177.2600
- FDA compliant 21 CFR § 177.1550
- 3-A Sanitary Class II
- (EC) No. 1935/2004
- USP Class VI
- REACH (1907/2006)
- RoHS (2011/65/EU)
- ADI-free

### Reference to the author/disclaimer

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