DICHTUNGEN FEDERN

KUBO

99-99-0096

PFA® – Perfluoroalkoxy-Polymer

Description

- PFA® is a thermoplastic material with properties very similar to those of PTFE. This material is being used for seamless coatings of O-rings. The encapsulated O-rings have an elastic core made of fluorinated rubber FPM (Viton®), ethylene-propylene EPDM or silicone MVQ. The outer coat provides the seal with an extremely high chemical resistance.

Property

- The high resistance of the envelope protects the elastic core material against the influence of the utilized medium. As core materials, fluorinated rubber FPM (Viton®) (black), ethylene-propylene EPDM (black) or silicone MVQ (red) are available
- Excellent ozone, aging and weather resistance
- Excellent chemical resistance
- Excellent heat resistance up to +260 °C

Typical applications

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

Further information

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Conformity

- FDA-compliance 21 CFR § 177.1550
- FDA-compliance 21 CFR § 175.300
- FDA-compliance 21 CFR § 175.105
- FDA-compliance 21 CFR § 176.170
- FDA-compliance 21 CFR § 176.180
- ADI-free
- USP Class VI
- EG 1935/2004

Technical Specifications			
			[Value]
Color			translucent
Hardness	ASTM D 2240	[Shore D]	55 ±5
Specific gravity	ASTM D 792	[g/cm^3]	2.15
Tensile strength at +23 °C	ASTM D 638	[MPa]	28
Tensile strength at +250 °C	ASTM D 638	[MPa]	12
Elongation at rupture at +23 °C	ASTM D 638	[%]	300
Elongation at rupture at +250 °C	ASTM D 638	[%]	500
Water absorption after 24 hours	ASTM D 570	[%]	< 0.03
Melting point	ASTM D 3418	[°C]	+302 - +310
Temperature		[°C]	-60 - +260

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