Aflas® 90-compound 223302 - Technical Data Sheet

1. Introduction

Aflas® 223302 is Tetrafluorethylene/Propylene Copolymer (FEPM).

2. Product Description

Chemical Composition	:	Tetrafluorethylene + Propylene (Peroxide cured) (FEPM)
Physical form	:	O-Rings / Vulc-O-Rings / Extrusions / Mouldings
Colour	:	Black
Storage stability *	:	± 10 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Hardness	ISO 868	90° ± 5° IRHD
Tensile Strength at break	ISO 37	21 MPa
Elongation at break	ISO 37	184%
Compression Set 25% compression, 24h/175°C, on slab	ISO 815	18%
Heat Ageing 72h/250°C Hardness Change Tensile Strength Change Elongation Change	ASTM D 573	 -2° -2 MPa +45%
Immersion in oil n° 3, 70h/150° Volume Change	ISO 1817	 +12,5%

4. Temperature Resistance

- -10°+200°C / short time: 250°C
- TR10 (low temp): +2°C

5. Chemical Resistance

ASTM Oil n° 3	:	very good
ASTM Fuel C	:	unsatisfactory
Acetone	:	unsatisfactory
Crude oils	:	very good
Kerosin	:	very good
Sulphuric acids	:	very good
MEK	:	unsatisfactory
MTBE	:	fair
Water	:	very good
Steam, 200°C	:	very good

6. Advantages

- Good compression set

7. Other Information on Vulc-O-Rings

- Tolerances standard on cross section to ISO 3302.
- Tolerances on O-Ring inside diameter according ISO 3302 up to diam. 160 mm. Bigger diameters tolerances ±0,5%.
- Smooth surface.
- Can be produced to ±0,05 mm tolerance in cross section.

8. Other Information

FEPM components are combustible and decomposition products generate hydrogen fluoride and fluorinated olefins. Do not expose to temperatures in excess of 310°C.