

TFE/P-FEPM 90 compound 223504



ERIKS' 223504 is a high performance grade TFE/P-FEPM compound, based upon AFLAS® ter-polymer with excellent base resistance. Specifically designed for high pressure, down hole applications (RGD or EAD grade).

Description

Chemical composition: Ter-polymer of Tetrafluoroethylene, vinylidene fluoride and hexafluoropropylene

Physical form: O-rings

Colour: Black

Temperature resistance: -20°C to +200°C

Application

- Down hole
- Oil and steam
- High pressure
- Rapid gas decompression (RGD or EAD grade)

Compliances

- NORSOK M710
- ADI
- REACH, RoHS

Additional information

- Excellent ozone/wheathering resistance
- Excellent base resistance
- Excellent resistance to steam and radiation

Please consult our [Chemical Resistance Guide](#) for more information on this compound.



Table 1: Physical properties

Property	Test standard	Value	Unit
Hardness	ASTM D2240	92	Shore A
Elongation at break	ASTM D412	100	%
Tensile strength	ASTM D412	16.1	MPa
Compression set – 70 hours at 200°C	ASTM D395		
Slab		50	%
Low temperature resistance TR10	ASTM D1329	+2	°C

Table 2: Ageing properties

Property	Test standard	Value	Unit
Heat ageing – 70 hours at 250°C	ASTM D573		
Hardness change		+1	Shore A
Elongation at break change		-15	%
Tensile strength change		-4.5	%
Immersion in steam – 70 hours at 160°C	ASTM D471		
Hardness change		-5	Shore A
Volume change		+6.5	%
Immersion in NH₃ – 168 hours at 23°C	ASTM D471		
Hardness change		+1.5	Shore A
Elongation at break change		+35	%
Tensile strength change		-11	%
Volume change		+3	%

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