FKM 95 Compound 514162

ERIKS' 514162 is a high performance grade FKM ter-polymer developed for for down hole oil patch applications with excellent resistance to extrusion and explosive decompression.

Description

- **Chemical composition**: Ter-polymer of Tetrafluoroethylene, vinylidenefluoride and hexafluoropropylene
- **Physical form**: O-rings
- **Colour**: Black
- **Temperature resistance**: -20°C to +200°C

Compliances

- ADI
- REACH
- RoHS

Application

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

Please consult our Chemical Resistance Guide for more information on this compound.

Table 1: Physical properties

Property	Test standard	Value	Unit
Hardness	ASTM D2240	95±5	Shore A
Elongation at break	ASTM D412	94	%
Tensile strength	ASTM D412	16.2	MPa
Compression set – 24 hours at 200°C	ASTM 395		
Slab		13	%
O-ring 3.53mm		31	%

Table 2: Ageing properties

Property	Test standard	Value	Unit
Heat ageing – 70 hours at 100°C	ASTM D573		
Hardness change		+1	Shore A
Tensile strength change		-10	%
Elongation change		-28	%
Immersion in ASTM oil #1 – 70 hours at 150°C	ASTM D471		
Hardness change		0	Shore A
Tensile strength change		-15	%
Elongation change		-25	%
Volume change		+1	%
Immersion in IRM 903 Oil – 70 hours at 150°C	ASTMD471		
Hardness change		-1	%
Tensile strength change		-12	%
Elongation change		-10	%
Volume change		+4,5	%

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