



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

Application

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

Compliances

- ADI
- REACH
- RoHS

Please consult our <u>Chemical Resistance Guide</u> 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 Hardness change Tensile strength change Elongation change	ASTM D573	+1 -10 -28	Shore A % %
Immersion in ASTM oil #1 – 70 hours at 150°C Hardness change Tensile strength change Elongation change Volume change	ASTM D471	0 -15 -25 +1	Shore A % % %
Immersion in IRM 903 Oil – 70 hours at 150°C Hardness change Tensile strength change Elongation change Volume change	ASTMD471	-1 -12 -10 +4,5	% % % %

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