

Material test report FKM 90

Colour Black

Property	Unit	Test method	Test parameter	Value
Hardness	Shore A	ASTM D 2240		90 ±5
Specific gravity	g/cm ³	ASTM D 1817		1,73 ±0,03
Tensile strength	MPa	ASTM D 412		10
Ultimate elongation	%	ASTM D 412		115
Compression set	%	ASTM D 395 B/1	24h / 200°C	35
Low temp. resistance	°C	ASTM D 1329	TR10	-48
Bending test		internal	4h / -55°C	pass

Changes of properties after ageing

Medium	Test method	Time	Temperature	Hardness	Tensile strength	Ultimate elongation	Volume
		H	°C	Points	%	%	%
Air	ASTM D 573	168	200	+2	-23	-20	
ASTM fuel C	ASTM D 471	70	23	-8	-25	-20	+6,5
Methanol	ASTM D 471	70	23	-10			+12,2

Specifications
 ULTRA LOW TEMPERATURE
 ANTI EXPLOSIVE DECOMPRESSION AED
 NORSOK M710 (rapid gas decompression)
 NACE TM0187 TESTED – (sour gas environment) 5% H₂S
 NACE TM0187 TESTED – (sour gas environment) 20% H₂S
 API6A (sour gas environment) 10% H₂S
 API6A (sour gas environment) 10 % H₂S [FF/HH]
 Sour fluid test Arrhenius ISO 23936-2 / Norsok M710-3

Temp. range - 61 +225°C (+250°C short time)

The above indicated data were determined to the best knowledge according to modern laboratory standards on standardised test specimen. If these data are compared with data which were determined on finished parts it may come to variations.