

FLUORITZ[®]-TR



“FLUORITZ-TR” is the most recent development in pure and radical resistant high performance seals. “FLUORITZ-TR” has improved anti-cracking and low adhesion characteristics compared with existing perfluoro-elastomers. Because no metallic fillers are added, “FLUORITZ-TR” has a higher purity level than

other materials. In order to combat poor radical resistance, impurities in the chamber and stickiness, “FLUORITZ-TR” is created for the next generation of harsh environments.

TYPICAL PROPERTIES

Color	Hardness (Shore A)	Tensile strength (MPa)	Elongation (%)	Modulus 100% elongation (MPa)	Service temperature range	Compression Set (%)
Dark Brown	72	11.1	160	3.1	~260°C	7%

Compression Set: After squeezing 25% at 200°C x 72 hours

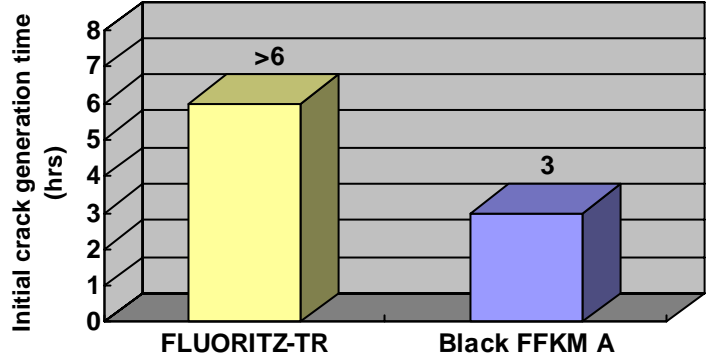
Above values are actual measurements, not standards.



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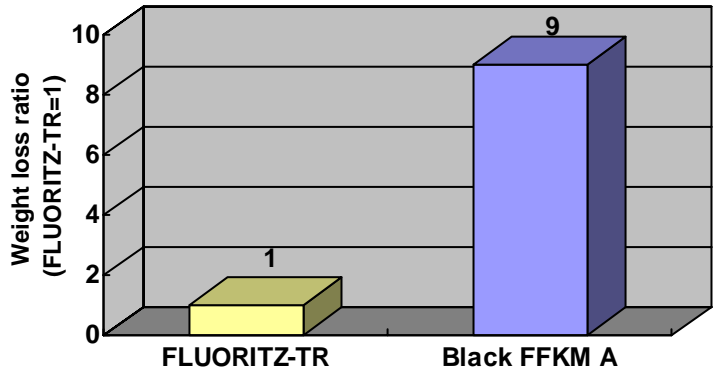
Radical Exposure Test ~Anti-cracking property~

Test conditions
 Equipment: Parallel flat plasma tool
 Plasma power: RF300W Gas: O2+CF4 (196 : 4)
 Irradiation condition: Down flow attack
 Test piece: AS568A-214 with 28% stretching condition



Radical Exposure Test ~Weight loss~

Test conditions
 Equipment: Parallel flat plasma tool
 Plasma power: RF300W Gas: O2+CF4 (196 : 4)
 Irradiation condition: 6hours down flow attack
 Test piece: AS568A-214 with 0% stretching condition

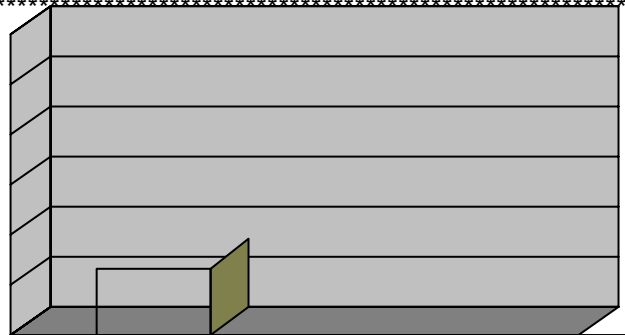


Sticking Strength

Test conditions
 Temperature: 80°C
 Heating time: 72h
 Test piece: AS568-270 O-ring
 Counter face: Anodized aluminum

Inorganic components content

Test conditions
 Measuring method: ICP/ MS analysis
 Inorganic elements (Total of 62 elements)



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