

VALQUA Semiconductor Industry Products

FLUORITZ™-TR

High Performance Elastomer FFKM O-Ring

❖ Product & Benefits

FLUORITZ™-TR is Valqua's high purity FFKM material. Its low compression set and resistance to adhesion make the FLUORITZ™-TR fit for static applications. Low weight loss and crack-resistance demonstrate the FLUORITZ™-TR's radical resistance.

❖ Featured Benefits

- Excellent Compression Set and Low Adhesion for Static Applications
- Improved Plasma and Crack Resistance for Harsher Environments

❖ Applications

- Plasma Enhanced CVD Equipment
- Low Pressure CVD Equipment

❖ Contact Us

Valqua America, Inc.
4655 Old Ironsides Dr #380
Santa Clara, CA 95054
www.valqua-america.com



❖ Typical Properties

Color	Dark Brown
Hardness (Shore A)	72
Tensile Strength (MPa)	11.1
Elongation (%)	160
Modulus 100% Elongation (MPa)	3.1
Maximum Temperature (°C)	260
Compression Set (%)	5

*Compression Set: 25% compression at 200°C for 72 hours
Values above are actual measurements, not standards*

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Additional information

FLUORITZ™-TR



❖ Mechanical Properties

Radical Exposure Test (Anti-cracking property)

Test Conditions

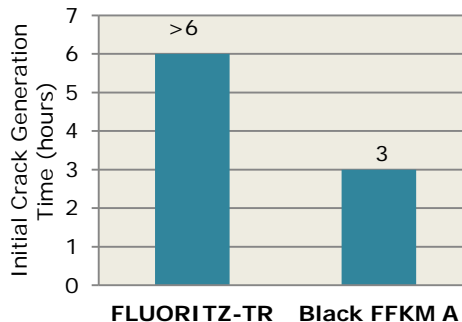
Equipment: Parallel flat plasma tool

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

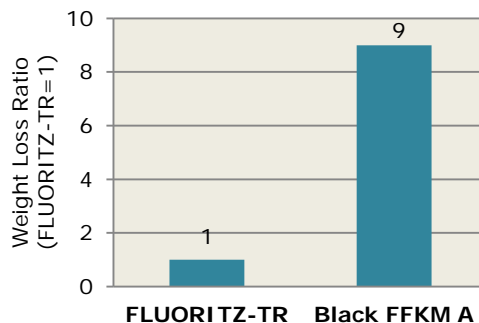
Equipment: Parallel flat plasma tool

Plasma power: RF300W

Gas: O₂+CF₄ (196:4)

Irradiation condition: 6 hours down flow attack

Test piece: AS568A-214 with 0% stretching condition



Sticking Strength

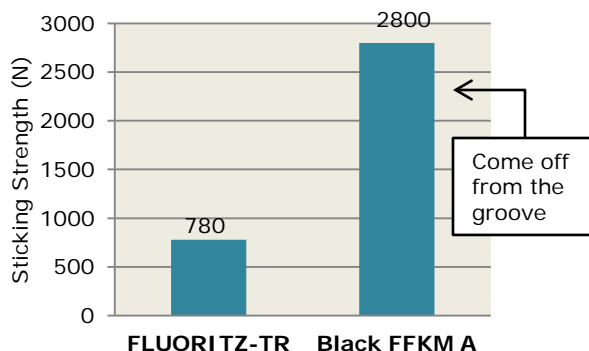
Test Conditions

Temperature: 80°C

Heating time: 72h

Test piece: AS568-270 O-ring

Counter face: Anodized aluminum

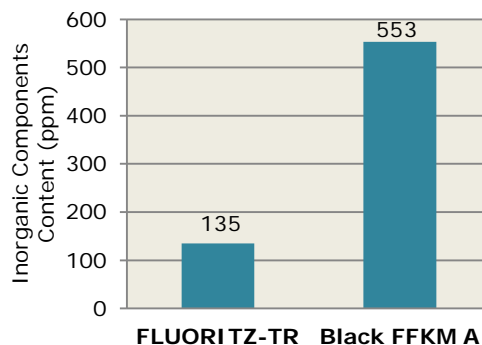


Inorganic Components Content

Test Conditions

Measuring method: ICP/MS analysis

Inorganic elements: Total of 62 elements



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