

VALQUA Semiconductor Industry Products

ULTIC ARMOR™

High Performance Elastomer FKM O-Ring

❖ Product & Benefits

ULTIC ARMOR™ is a high performance FKM applicable to both static and dynamic applications. It may be used for CVD, Etch and Ashing processes. The ULTIC ARMOR™ is also available as a specifically engineered bonded gate.

❖ Featured Benefits

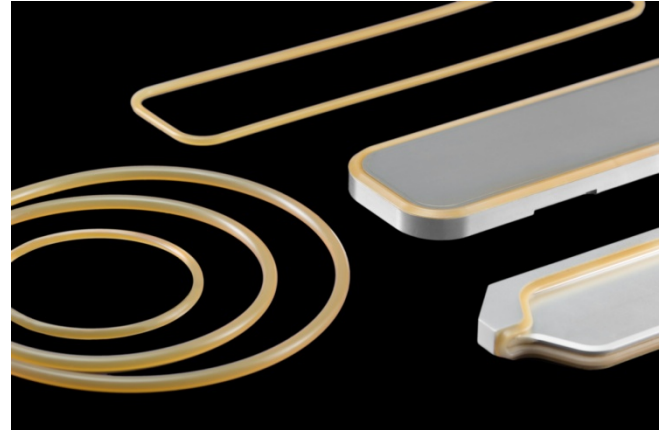
- A Highly Pure FKM with Improved Radical Resistance
- Low Adhesion to Quartz and Metal for Gate Seals
- Excellent Compression Set for Static or Dynamic Locations

❖ Applications

- All CVD Applications
- Dry Etch Equipment
- Plasma Ashing Equipment

❖ Contact Us

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



❖ Typical Properties

Color	Transparent Amber
Hardness (Shore A)	70
Tensile Strength (MPa)	13.9
Elongation (%)	220
Modulus 100% Elongation (MPa)	2.9
Maximum Temperature (°C)	200
Compression Set (%)	27

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

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Additional information

ULTIC ARMOR™

Mechanical Properties

Customer Evaluation Conditions

Equipment: CVD

Location: Exhaust valve (AS568A-274)

Gas: SiH₄+O₂+He+Ar/NF₃+Ar

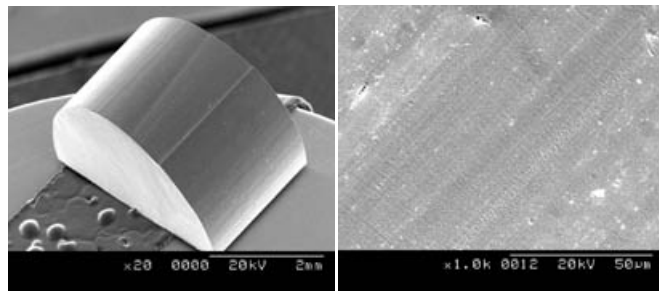
Plasma power: RF3200W/Microwave 3200W

Temperature: 120 °C

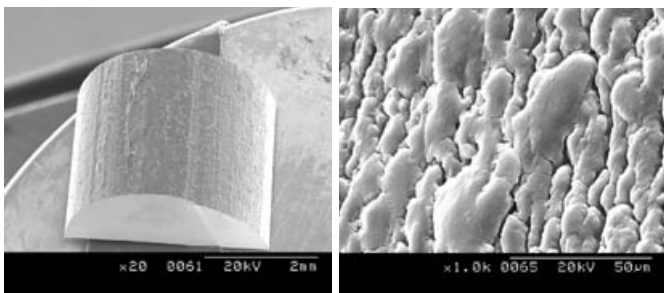
Wafer Count: ULTIC ARMOR 4,794

Black FFKM A 3,200

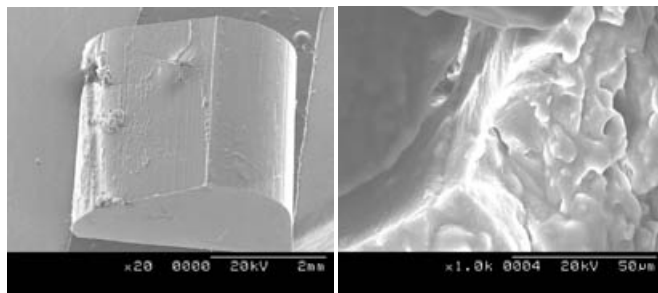
White FFKM K 4,000



ULTIC ARMOR

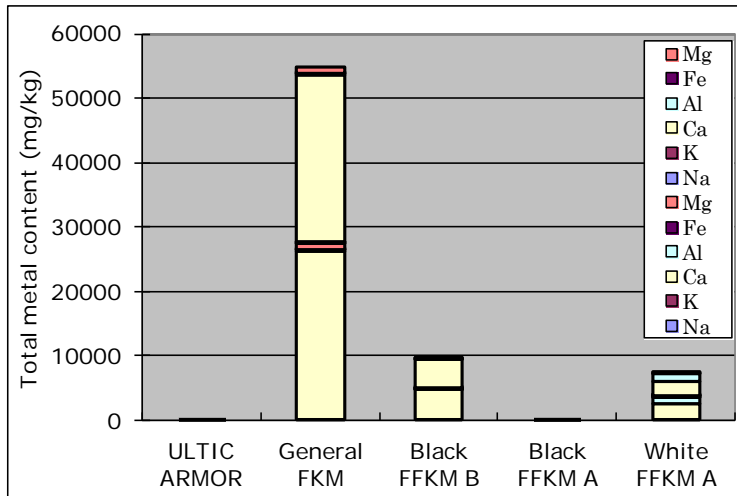


Black FFKM A

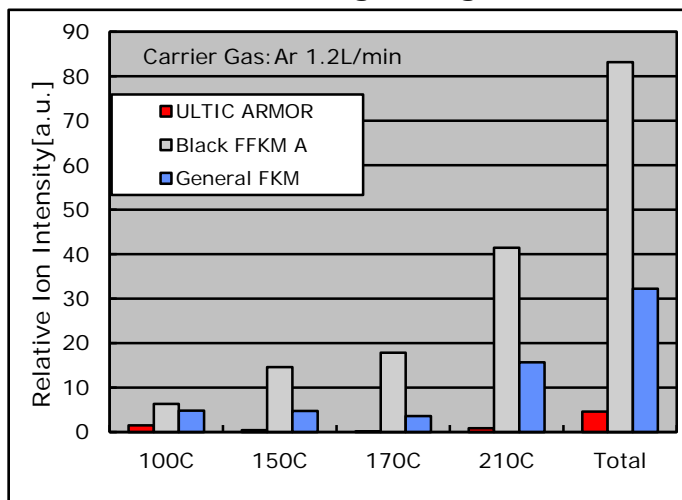


White FFKM K

Metal Component Contents



Total Outgassing



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