VALQUA Semiconductor Industry Products

SPOQ ARMOR®

High Performance FKM

Product & Benefits

SPOQ ARMOR [®] is a high performance FKM material recommended for static/dynamic locations. Its plasma resistance properties make the SPOQ ARMOR [®] suitable for CVD, Etch and Ashing applications.



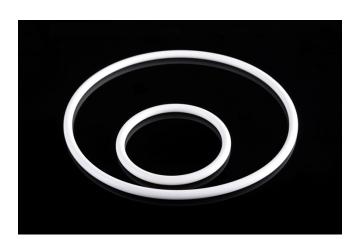
- Plasma Resistance
- Low Adhesion
- Low Metallic Impurities
- Low Outgassing

Applications

- Dry Etch Equipment
- Plasma Enhanced CVD Equipment
- Plasma Ashing Equipment

Contact Us

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Typical Properties

Color	White
Hardness (Shore A)	71
Tensile Strength (MPa)	14.0
Elongation (%)	240
Modulus 100% Elongation (MPa)	3.0
Maximum Temperature (°C)	200
Compression Set (%)	33

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

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Additional information SPOQ ARMOR ®

Performance Properties

Actual Equipment Evaluation Example

Scanning electron micrograph of elastomer surface after plasma exposure

Equipment: CVD

Location: Slit valve (AS568A-254)

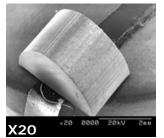
 $\textbf{Gas}: \ \mathsf{TEOS} + \mathsf{O}_2 + \mathsf{C}_2 \mathsf{F}_6 + \mathsf{TMP}$

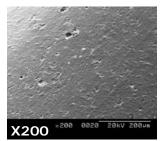
Plasma Power: RF450W

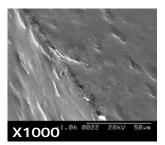
Temperature: 70~80°C

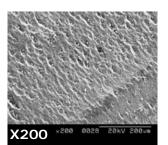
Wafer Count: SPOQ ARMOR 17,000

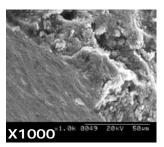
General FKM 1,700











SPOQ ARMOR

General Fluoro Elastomer