

VALQUA Semiconductor Industry Products

HYREC ARMOR™

High Performance FKM

❖ Product & Benefits

HYREC ARMOR™ is a softer FKM suited for static seal locations, with excellent purity and improved radical resistance compared to the conventional FKM. It may be used for dry etch, ashing, CVD processes.

❖ Featured Benefits

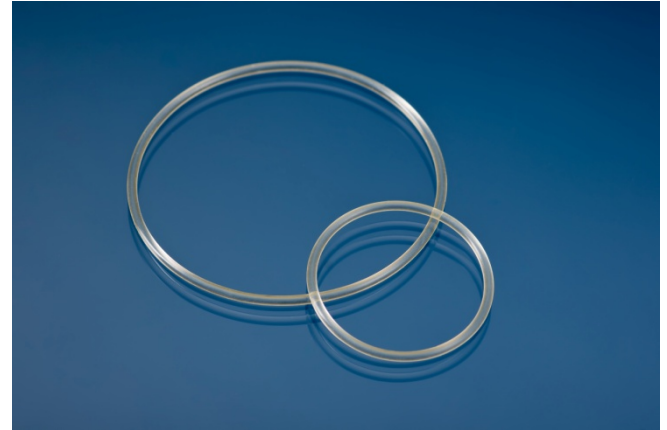
- A Softer FKM with Excellent Compression Set for Static Locations
- Low Adhesion to Metal and Improved Radical Resistance

❖ Applications

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

❖ Contact Us

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❖ Typical Properties

Color	Transparent Deep Amber
Hardness (Shore A)	58
Tensile Strength (MPa)	13.0
Elongation (%)	440
Modulus 100% Elongation (MPa)	1.2
Maximum Temperature (°C)	200
Compression Set (%)	38

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

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Additional information

HYREC ARMOR™

❖ Performance Properties

Actual Equipment Evaluation Example

Scanning electron micrograph of elastomer surface after plasma exposure

Equipment: Etcher

O-ring Size: AS568A-207 **Gas:** Cl₂ +BCl₃+Ar **Plasma Power:** 1000-1500W **Temp:** 100-200°C

Evaluation Period: HYREC ARMOR 2 months Competitor 1.5 months



HYREC ARMOR™



Competitor
White FFKM



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