

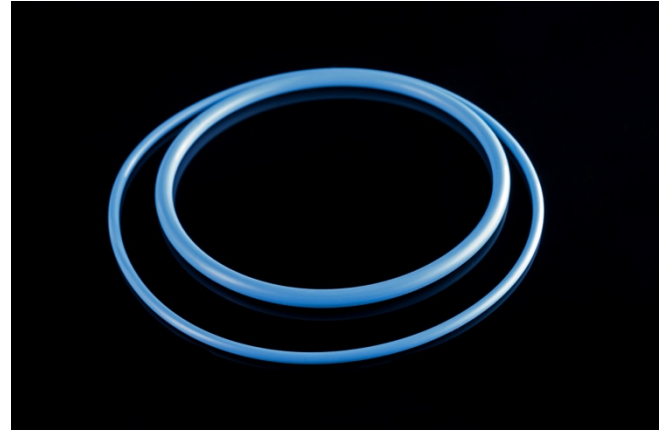
VALQUA Semiconductor Industry Products

LABE ARMOR™

High Performance Elastomer FKM O-Ring

❖ Product & Benefits

LABE ARMOR™ is Valqua's blue fluoro-silicone O-Ring. Its low adhesion to quartz and plasma resistance makes it suitable for static locations in ashing and etching equipment.



❖ Featured Benefits

- Valqua's Fluorosilicone Grade Sealing Material with O₂ Plasma Resistance
- Applicable to Low Temperature Locations Well Below 0°C

❖ Applications

- Seals for Plasma 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	Blue
Hardness (Shore A)	75
Tensile Strength (MPa)	8.8
Elongation (%)	220
Modulus 100% Elongation (MPa)	4.3
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

LABE ARMOR™

VALQUA AMERICA, INC.

Actual Equipment Evaluation Example

Magnification of Etched Area

❖ Mechanical Properties

Equipment: Asher

Plasma Power: 1300W **Temp:** 250 °C **Time:** 3 months

Vacuum: 2.8 Torr **Gas:** O₂, N₂



Fluorosilicon Rubber



LABE ARMOR



Fluorosilicon Rubber



LABE ARMOR

DUROMETER	Initial Duro (as measured)	Eched Area	Opposite I.D. side
Fluorosilicon Rubber	74	99 (+25)	86 (+12)
LABE ARMOR	78	89 (+11)	80 (+2)



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