

VALQUA Semiconductor Industry Products

LABE ARMOR™

High Performance Modified Fluoro-silicone

❖ Product & Benefits

LABE ARMOR™ is Valqua's enhanced 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 as low as -65°C

❖ Applications

- Seals for Plasma Equipment
- Plasma Ashing Equipment
- Chillers and Other Cooling 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

Values above are actual measurements, not standards

All trademarks and registered trademarks noted in this file are the exclusive property of Nippon Valqua Industries, Ltd. unless otherwise specified. Although these data are created based on the data and the information (Internal master file No.: VMF104-019) as of April 2019, VALQUA, LTD. may change these data without notice for the reason of improvement in functional of a product, standard revision and others. Please note the following point in use of these data. (1) An operating temperature, pressure range, durability, etc. indicated in this catalogue do not assume each operation conditions but show the application possibility based on our company data, an actual result, etc. Therefore, please use these data after checking the aptitude in actual use environment. (2) The data contained within this catalogue can only be taken as a guide. (3) A standard, a value, etc. are the purposes made legible, and may be performing an extract, recombination, arrangement, conversion, etc. of a value. (4) Although the maximum attention was paid in this data creation, VALQUA, LTD. will not accept responsibility for any loss incurred through error or omission. Please contact your distributor or VALQUA group if you have any questions.



Valqua America, Inc.
Tel : +1-408-986-1425
Email : info@valqua-america.com

Additional information

LABE ARMOR™

Actual Equipment Evaluation Example

Magnification of Etched Area

❖ Performance Properties

Equipment: Asher	Plasma Power: 1300W
Process Temp: 250 °C	Time: 3 months
Vacuum: 2.8 Torr	Gas: O2, N2

Fluoro-silicone Rubber



Hardness

LABE ARMOR™



Appearance



Material	Initial Hardness (as measured)	Etched Area Hardness
Fluoro-silicone Rubber	74	99 (+25)
LABE ARMOR™	78	89 (+11)