

# VALQUA Semiconductor Industry Products

## REBLIC ARMOR

### High Performance FKM

#### ❖ Product & Benefits

**REBLIC ARMOR** is an inorganic filler-free type high performance fluoroelastomer.

It has excellent properties for semiconductor manufacturing processes that involve plasma environments such as Dry Etch and CVD, aimed at reducing particle generation and adhesion to extend sealing lifetime.

REBLIC ARMOR's softness also helps improve the ease of installation.



#### ❖ Featured Benefits

- Excellent Plasma Resistance
- Excellent Adhesion Properties

#### ❖ Applications

- Plasma Etch / Remote Plasma Clean
- Static Locations (Lid, Inlet, Etc.)

#### ❖ Contact Us

Valqua America, Inc.  
1130 Mountain View Alviso Rd.  
[www.valqua-america.com](http://www.valqua-america.com)

#### ❖ Typical Properties

Color	Reddish Brown
Hardness (Shore A)	55
Tensile Strength (MPa)	17.0
Elongation (%)	300
Modulus 100% Elongation (MPa)	1.5
Compression Set (%)*	20
Temperature Range (°C)	-5 ~ 200

\*25% Squeeze @200C for 72h

Values above are actual measurements, not standards

All trademarks and registered trademarks noted in this file are the exclusive property of VALQUA, LTD. unless otherwise specified. Although these data are created based on the data and the information (Internal master file No.: VMF104-021) as of Jan 2023, 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.

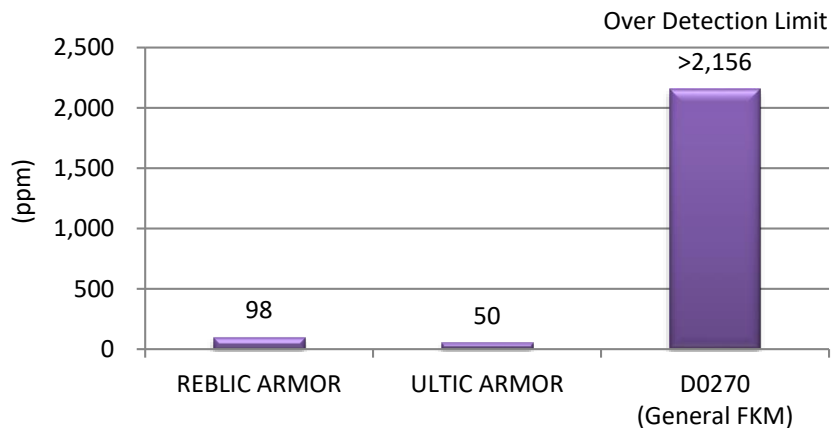


Valqua America, Inc.  
Tel : +1-408-962-5030  
Email : [vai-info@valqua.com](mailto:vai-info@valqua.com)

## Additional Information

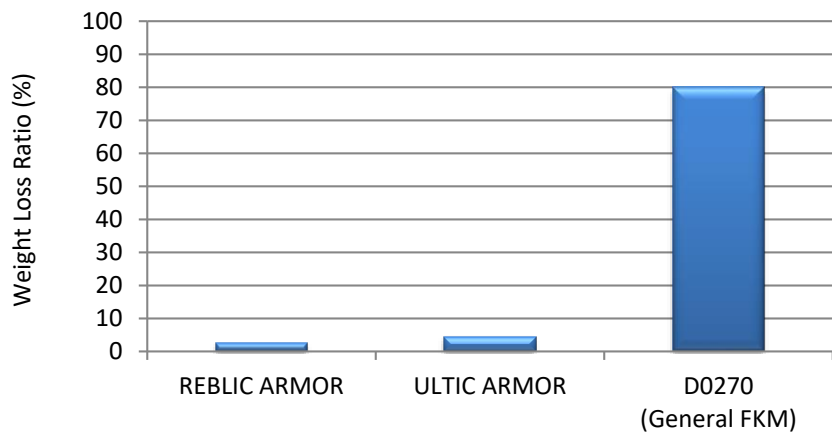
## REBLIC ARMOR

### ❖ Inorganics Content (ICP-MS)



- Elements below lower detection limit omitted
- Upper detection limit value counted for elements above this limit

### ❖ Radical Resistance



### ❖ Adhesion Strength

