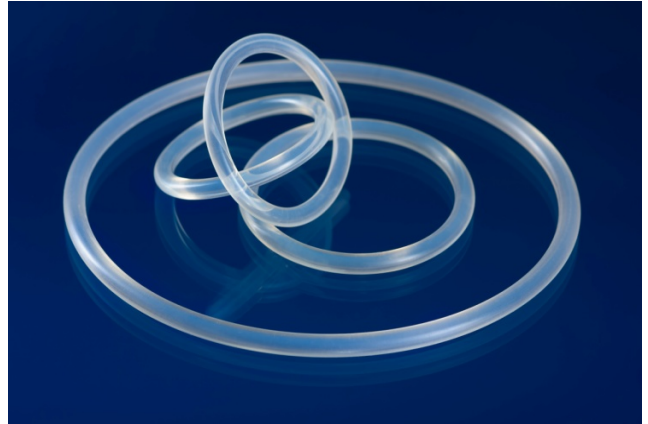


VALQUA Semiconductor Industry Products

ARMOR CRYSTAL® High Performance FKM



❖ Product & Benefits

ARMOR CRYSTAL® is a very high purity FKM material for improved adhesion to metals and radical resistance compared to the conventional FKM. It may be used for dry etching/ashing and CVD equipment for Semiconductor and LCD equipment.

❖ Featured Benefits

- Improved Radical Resistance Compared to the Conventional FKM
- Low Adhesion to Metal Surfaces
- Highly Pure with Very Low Inorganic Components Content

❖ Applications

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

❖ Contact Us

Valqua America, Inc.
4655 Old Ironsides Dr #380
Santa Clara, CA 95054
www.valqua-america.com

❖ Typical Properties

Color	Transparent /Clear	
	Hardness (Shore A)	60
Tensile Strength (MPa)	17.0	19.0
Elongation (%)	580	510
Modulus 100% Elongation (MPa)	1.7	1.8
Maximum Temperature (°C)	150	150

Values above are actual measurements, not standards

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Tel : +1-408-986-1425
Email : info@valqua-america.com

Additional information

ARMOR CRYSTAL®

❖ Evaluation Results

Customer Evaluation Conditions

Equipment: CVD

Location: Slit Valve (AS568A-254)

Gas: TEOS+O₂+C₂F₆+TMP

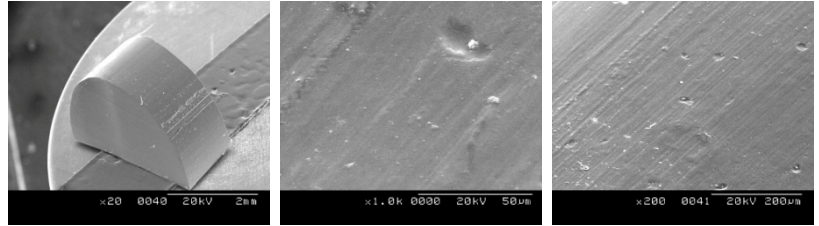
Plasma Power: RF450W

Temperature: 70~80C

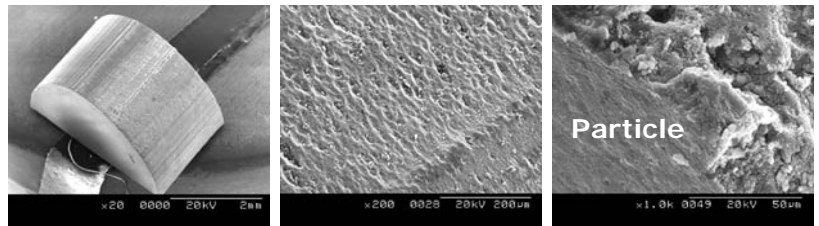
Wafer count:

ARMOR CRYSTAL® 141,000

General Fluoro-Elastomer 1,700



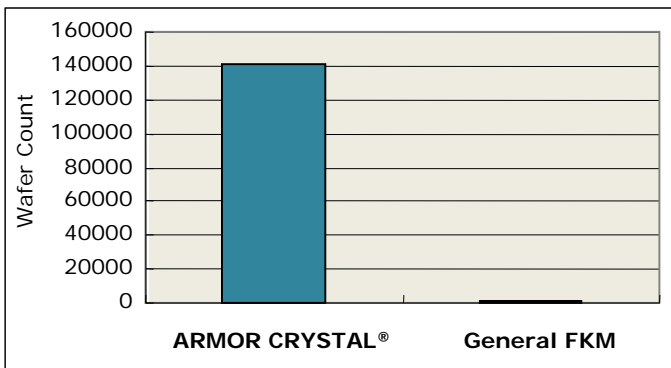
ARMOR CRYSTAL®



General Fluoro-Elastomer

❖ Cost Advantage

Wafer Count



Annual Cost

