

VALQUA Semiconductor Industry Products

ULTIC ARMOR™-F

High Performance Elastomer FKM O-Ring

❖ Product & Benefits

ULTIC ARMOR™-F is a high performance FKM material recommended for dynamic locations. Its radical resistance properties make the ULTIC ARMOR™-F suited for CVD, Etch and Ashing applications.

❖ Featured Benefits

- Enhanced Radical Resistance (Weight Loss Ratio and Crack Resistance)
- Anti-Cracking Properties and Low Adhesion to Quartz and Metal for Dynamic Locations
- Low Metallic Impurities

❖ Applications

- Dry Etch Equipment
- CVD Equipment
- Plasma Ashing Equipment

❖ Contact Us

Valqua America, Inc.
4655 Old Ironsides Dr #380
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❖ Typical Properties

Color	Midnight Blue
Hardness (Shore A)	67
Tensile Strength (MPa)	12.4
Elongation (%)	140
Modulus 100% Elongation (MPa)	5.4
Maximum Temperature (°C)	160
Compression Set (%)	28

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

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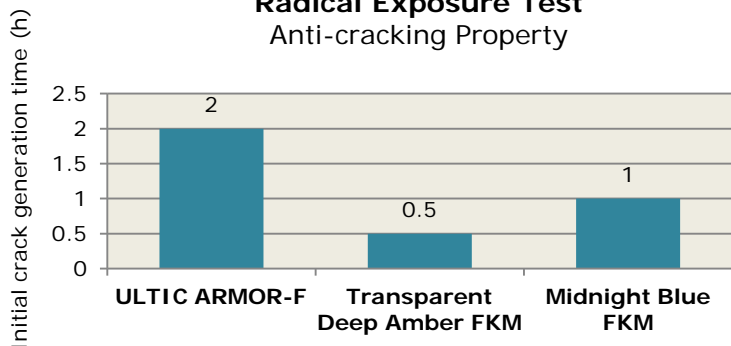
Additional information

ULTIC ARMOR™-F

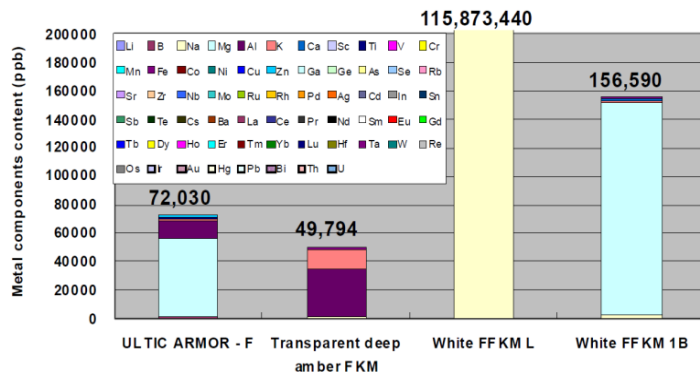


❖ Mechanical Properties

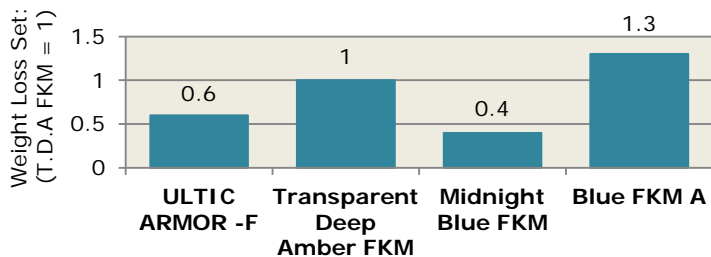
Radical Exposure Test
Anti-cracking Property



Metal Components Content



Radical Exposure Test
Weight Loss



Material	Total ppb	Major Components (ppb)
ULTIC ARMOR – F	71,610	Al (56,000), K (12,000)
ULTIC ARMOR	49,794	Al (34,000), K (12,600)
White FFKM L	115,873,440	Ba (114,000,000), Na (840,000)
Amber FFKM A	156,590	Mg (150,000), Na (2,100)

Sticking Strength

