

VALQUA Semiconductor Industry Products

DC156

High Performance FKM

❖ Product & Benefits

DC156 has excellent properties in terms of crack resistance upon radical exposure and weight loss. Its low adhesion properties and cleanness make the DC156 suitable for static applications in CVD and Etching/Ashing processes.

❖ Featured Benefits

- A Softer FKM with Excellent Adhesion Properties for Static Locations
- Improved Anti-Cracking and Radical Resistance from General Fluoro-Elastomers

❖ Applications

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

❖ Contact Us

Valqua America, Inc.
4655 Old Ironsides Dr #380
Santa Clara, CA 95054
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❖ Typical Properties

Color	Midnight Blue
Hardness (Shore A)	58
Tensile Strength (MPa)	13.2
Elongation (%)	250
Modulus 100% Elongation (MPa)	1.7
Maximum Temperature (°C)	200
Compression Set (%)	22

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

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Additional information

DC156

❖ Performance Properties

Radical Exposure Test (Anti-cracking property)

Test Conditions

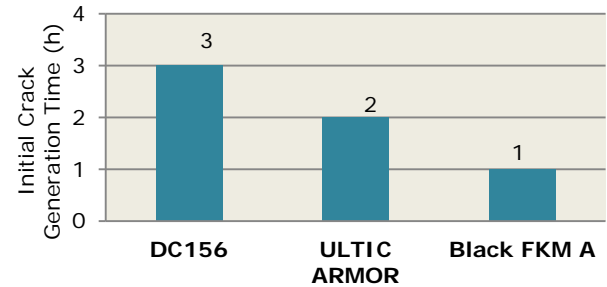
Equipment: Parallel flat plasma tool

Plasma power: RF300W

Gas: O₂+CF₄ (196:4)

Irradiation condition: Down flow attack

Test piece: AS568A-214 with 28% stretching condition



Radical Exposure Test (Weight loss)

Test Conditions

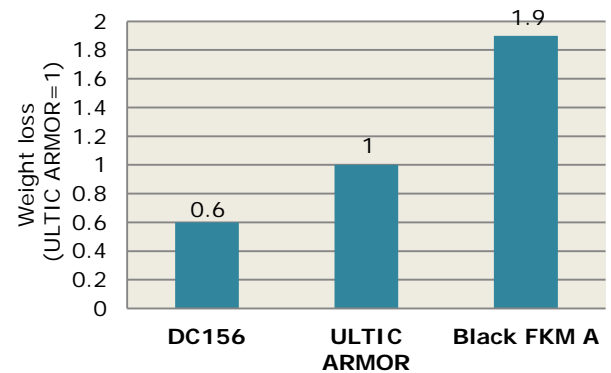
Equipment: Parallel flat plasma tool

Plasma power: RF300W

Gas: O₂+CF₄ (196:4)

Irradiation condition: 6 hours down flow attack

Test piece: AS568A-214 with 0% stretching condition



Sticking Strength

Test Conditions

Temperature: 80°C

Heating time: 72h

Test piece: AS568-270 (gate valve)

Counter face: Anodized aluminum

