

# ASNA PERFREZ<sup>®</sup> XT

For Semiconductor Sub-Fab and Fab Applications

Technical Data Sheet (Oct 2019)

## High Temperature Resilient Perfluoroelastomer for Plasma Applications

PERFREZ<sup>®</sup> XT is specially designed for abatement, SubFab and Fab applications which require a broad range of chemical compatibility and excellent mechanical properties

### Features and Benefits

- Superior physical properties with low CTE value
- Excellent oxygen and fluorine compatibility
- Low particle generation
- Low out-gassing

### Compatible Semiconductor Process

- ✓ Foreline, Abatement, exhaust
- ✓ Deposition: PECVD, APCVD, HDPCVD, RPCVD, SACVD
- ✓ Plasma Etch: Oxide and Metal
- ✓ Ashing & Stripping
- ✓ Ion Implant
- ✓ RTP
- ✓ Lamp Anneal
- ✓ Diffusion

### Applications:

- ✓ KF-Fittings
- ✓ Isolator Valve Seals
- ✓ Bell Jar Seals
- ✓ Door Seals
- ✓ End Point Windows
- ✓ Gas Inlet Seals
- ✓ Slit Valves
- ✓ Window Seals



### Typical Physical Properties<sup>1</sup>

Color <sup>2</sup>	<i>Black</i>
Hardness, (Shore A)	70 (+/-5)
Elongation at break <sup>3</sup> , %	106
Tensile Strength, psi(MPa)	1196 (8.25)
Modulus @100%, psi(MPa)	1049 (7.23)
Min. Operating Temperature, °C(°F)	-20(-4)
Max. Operating Temperature, °C(°F)	240(464)
Compression Set <sup>4</sup> @200°C, %	21.5

<sup>1</sup>Not to be used for specification purposes

<sup>2</sup>Color variations may be observed in actual product. They are considered to be cosmetic and inherent as a result of curing process, not indicative for foreign matter and is not expected to have an adverse effect on the performance of the part in service.

<sup>3</sup>Even though elongation property is indicated, most perfluoroelastomer materials should not be stretched for optimal performance.

<sup>4</sup>ASTM D395-03, Method B

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