

ASNA PERFREZ® XL15

Ultra-Pure FFKM for semiconductor applications

Technical Data Sheet (May 2020)

Purity solution for both static and dynamic applications

PERFREZ® 15 is a translucent compound made of a semi-crystalline nano-filler. This compound is developed to handle the most demanding fluorine, chlorine and oxygen plasmas as well as the most aggressive acids and solvents used in semiconductor processing. It is also recommended for extreme applications in the bio-analytical industry.



Features and Benefits

- Excellent physical properties
- Superior oxygen, chlorine, and fluorine compatibilities
- Exceptional plasma and temperature resistance
- Low out-gassing
- Ultra-low particle

Compatible Semiconductor Process

- ✓ Deposition: CVD, APCVD, HDPCVD, RPCVD, SACVD
- ✓ Plasma Etch: oxide and metal
- ✓ Ashing
- ✓ Ion Implant
- ✓ Diffusion
- ✓ Lamp Anneal

Applications:

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

Typical Physical Properties¹

Color ²	Translucent
Hardness, (Shore A)	74 (+/-5)
Elongation at break ³ , %	228
Tensile Strength, psi(MPa)	1648 (11.36)
Modulus @100%, psi(MPa)	487(3.35)
Coefficient of Thermal Expansion	2.87x10 ⁻⁴
Min. Operating Temperature, °C(°F)	-20(-4)
Max. Operating Temperature, °C(°F)	260(500)

¹Not to be used for specification purposes

²Color 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.

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

⁴ASTM D395-03, Method B

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