

ASNA PERFREZ® 6021

High temperature material with chemical compatibilities

Technical Data Sheet (Apr 2019)

Designed for thermal resistance with decent cleanliness

As one of a specialized line of perfluoroelastomers developed for the harsh environment of the semiconductor industry, PERFREZ® 6021 is utilized for processes that are mainly facing higher temperatures (above 230°C) or aqueous solutions. This material will outlast standard materials that impact process integrity.



Features and Benefits

- Broad chemical resistance
- Excellent physical properties
- Exceptional heat resistance
- High temperature capability

Semiconductor Applications

- ✓ Wafer Preparation
- ✓ Wet Etching
- ✓ Stripping
- ✓ Copper Plating
- ✓ Diffusion & RTP
- ✓ Door and Lid Seals
- ✓ Valve Seals
- ✓ KF Fitting Seals
- ✓ Container Seals
- ✓ Drain Seals

Chemical Applications:

- ✓ Organic/Inorganic Acids
- ✓ Bases
- ✓ Amines
- ✓ Steam or Hot Water
- ✓ Ketones
- ✓ Aldehydes

Typical Physical Properties¹

Color ²	Black
Hardness, (Shore A)	80 (+/-5)
Elongation at break ³ , %	171
Tensile Strength, psi(MPa)	1966(13.56)
Modulus @100%, psi(MPa)	908(6.26)
Specific Gravity (g/cm ³)	1.99
Min. Operating Temperature, °C(°F)	-30(-22)
Max. Operating Temperature, °C(°F)	300(572)
Compression Set ⁴ @200°C, %	18.5

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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