

Technical Datasheet

Applied Seal's specialized manufacturing produces the only black Perfluoroelastomer O-Rings such as PERFREZ® XHT in a dedicated clean room.

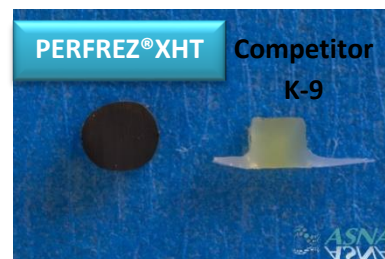
As one of a specialized line of Perfluoroelastomers developed for the harsh environments of the Semiconductor Industry, PERFREZ®XHT is utilized for processes that are mainly facing higher temperatures (above 325°C) or aqueous solutions. This material will outlast standard materials that impact process integrity. Designed for strength as well as relative cleanliness, this is an all-purpose material that can be an upgrade to most of the standard, less suitable sealing elements not acceptable for the stringent requirements of the Semiconductor, Solar and 'Clean' industries.

Features and Benefits

- High Temperature Capabilities
- Nitrile Curing System
- Exceptional Heat Resistance
- Broad Chemical Resistance

Chemical Applications:

- Organic Acids
- Inorganic Acids
- Bases
- Ketones
- Aldehydes



**High Temperature 325°C
Compression Set Result**

Physical Properties

Color	Black	
PROPERTIES	ASTM	VALUE
Hardness, (Shore A)	D2240	70-/+5
Tensile Strength psi, (MPa), min	D1414	2257 (15.56)
Elongation, %, min	D1414	181
Modulus at 100% psi, (MPa), min	D1414	726 (5.0)
Minimum Operating Temperature	-5°C (23°F)	
Maximum Operating Temperature	325°C (617°F)	
Compression Set, 25% deflection, 70h @ 200°C (392°F)	6.5%	
Compression Set, 25% deflection, 70h @ 275°C (527°F)	9.1%	
Compression Set, 25% deflection, 70h @ 300°C (572°F)	18.0%	
Compression Set, 25% deflection, 70h @ 325°C (617°F)	36.1%	

****EVEN THOUGH ELONGATION PROPERTY IS INDICATED, MOST PERFLUOROELASTOMER MATERIALS SHOULD NOT BE STRETCHED FOR OPTIMAL PERFORMANCE.**

Note: color variations may be observed in parts. Variations 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.



Applied Seals North America, Inc.

39899 Balentine Dr., Suite 368, Newark, CA94560, U.S.A

Toll Free: 1 (888) 551 ASNA (2762)

Direct: 1 (510) 623 8307

Fax: 1 (510) 623 8723

Email: asna.info@appliedsealsglobal.com

Press Inquires: asna.media@appliedsealsglobal.com

<http://www.appliedsealsglobal.com>