

Technical Datasheet

PERFREZ® 9001C, a heat-resistant grade perfluoroelastomer, is designed to deliver superior thermal stability and extended service life under conditions of very high temperatures. It is formulated by a special polymer compounding process involving large particle size carbon blacks, which resulted in an enhanced mechanical property and a low compression set. It has excellent chemical resistance due to low volume swell. PERFREZ® 9001C is used extensively in the chemical processing industries where outstanding performance is required under hostile service environments. A maximum upper service temperature of 300°C is recommended.



Recommended Applications

- Mechanical seals
- Chemical injectors and reactors
- Connect coupling
- Sampling/ metering equipments
- Controls/ instrumentations
- Sprayers and dispensers
- Compressors

Features and Benefits

- Excellent resistance to aggressive chemicals
- Excellent temperature resistance
- Excellent compression set at high temperature
- Low volume swell

Typical Physical Properties

Color	Black	
PROPERTIES	ASTM	VALUE
Hardness, (Shore A)	D2240	80 -/+5
Tensile Strength psi, (MPa), min	D1414	1431(9.87)
Elongation, %, min	D1414	203
Modulus at 100% psi, (MPa), min	D1414	985 (6.79)
Compression Set, 72 Hrs@ 275°C	D395, Method B	23.4
Minimum Operating Temperature	-10°C	
Maximum Operating Temperature	300°C	

****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.