

Technical Datasheet

PERFREZ® 9021C, one of our specialized line of perfluoroelastomers, is formulated for the use under the harsh thermal and chemical environments that can be found in many chemical and hydrocarbon processes. It is the most popular compound which provides the broadest spectrum of use due to its wider chemical withstanding range, as well as improved thermal and steam resistance. It is well suited in many applications within the chemical process industry, such as flow controllers, connectors, and spraying equipments.



Recommended Applications

- Chemical injectors and reactors
- Ink handling and spraying equipments
- Flow controllers/ metering equipments
- Compressors
- Dispensers
- Mechanical seals

Features and Benefits

- Broad chemical withstanding range
- Excellent performance in steam and hot water
- Low volume swell
- Cost effective due to longer and better seal integrity

Typical Physical Properties

Color	Black	
PROPERTIES	ASTM	VALUE
Hardness, (Shore A)	D2240	80 -/+5
Tensile Strength psi, (MPa), min	D1414	2907(20.5)
Elongation, %, min	D1414	185
Modulus at 100% psi, (MPa), min	D1414	1356 (9.35)
Compression Set, 336 Hrs@ 200°C	D395, Method B	26.3
Minimum Operating Temperature	-10°C	
Maximum Operating Temperature	290°C	

****EVEN THOUGH ELONGATION PROPERTY IS INDICATED, MOST PERFLUROELASTOMER 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.