

PERFREZ® 9131E

Performance Excellence

PERFREZ® 9131E . 2019.

Technical Datasheet

PERFREZ® 9131E, similar to PERFREZ® 9001, is a heat-resistant grade perfluoroelastomer, but exhibits a greater thermal stability. PERFREZ® 9131E broadens the sealing options as it is developed to meet the requirements of new seal applications in dynamic environments. PERFREZ® 9131E is used in diverse applications across the chemical processing industries where extreme chemical solvents are required. With an improved thermal resistance, a maximum upper service temperature is extended to 320°C.



Recommended Applications

- Mechanical application seals
- Reservoir fluids with High H₂S
- Stimulation treatment fluids
- Completion fluids
- Xylene, toluene, amine-based inhibitors
- Organic and inorganic acids

Features and Benefits

- Excellent resistance to aggressive chemicals
- Excellent temperature withstanding range up to 320°C
- Excellent compression set at high temperature
- Low volume swell
- Cost effective due to longer and better seal integrity

Typical Physical Properties

Color	Black	
PROPERTIES	ASTM	VALUE
Hardness, (Shore A)	D2240	70 -/+5
Tensile Strength psi, (MPa), min	D1414	2742(18.91)
Elongation, %, min	D1414	218
Modulus at 100% psi, (MPa), min	D1414	776(5.35)
Compression Set, 336 Hrs@ 230°C	D395, Method B	38.1
Minimum Operating Temperature	-10°C	
Maximum Operating Temperature	320°C	
Density, (Mg/m ³)	2.01 (CNS 5341, Method A)	

***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.



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