Request a Quote

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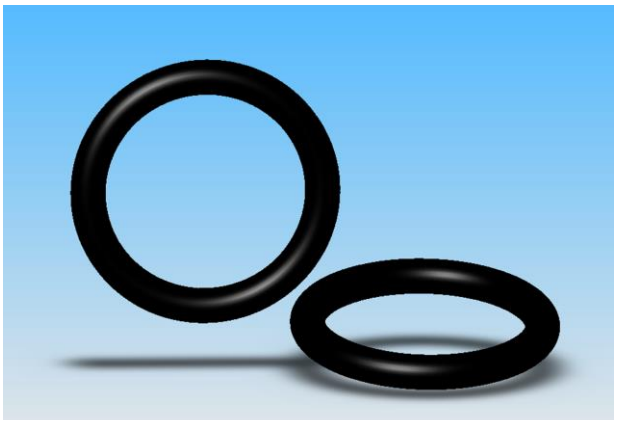
MARKEZ® Z1309 PERFLUOROELASTOMER
TECHNICAL DATASHEET

HIGH TEMPERATURE BLACK PERFLUOROELASTOMER

Z1309 Compound offers high temperature resistance for long-term exposure. Z1309 also offers high pressure and explosive decompression resistance.

The high modulus of Makes Z1309, makes it resistant to extrusion and ideal for use in high-pressure environments. In addition, the low long-term compression set provides a high mean time between maintenance cycles in hot chemically aggressive environments.
Z1309 is suitable for both dynamic and static applications.



FEATURES AND BENEFITS

- High Durometer
- Explosive decompression resistant
- Excellent chemical resistance to a wide range of chemicals
- Exceptional acid and amine resistance
- Superior mechanical properties
- High sealing efficiency

APPLICATIONS

- Jet engines
- Diesel
- Chemical industry
- Oil and gas equipment

TYPICAL PHYSICAL PROPERTIES

Property	ASTM	ISO	Value
Material Type	FFKM	FFPM	
Color		Black	
Hardness: (°IRHD)	D1415	ISO48	90
Tensile Strength (MPa)	D412	ISO37	20.4
Elongation at break (%)	D412	ISO37	117%
100% Modulus (MPa)	D412	ISO37	17.4
Compression Set: 72 hrs @ 200°C (392°F)	D395	ISO815	30%
Minimum Operating Temperature		-15°C (+5°F)	
Maximum Operating Temperature		+310°C (+590°F)	

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HEAT RESISTANCE – ASTM D 573 – 70 hrs. @ 275° C	TEST RESULTS
Change In hardness	+1.5%
Change in tensile strength	-10%
Change in ultimate elongation	+16%

FLUID RESISTANCE – ASTM D 471 – MEK - 168 hrs. @ 40° C	TEST RESULTS
Change in hardness	-3%
Change in volume	+5%

FLUID RESISTANCE – ASTM D 471 – WATER+GLYCOL - 168 hrs. @ 150° C	TEST RESULTS
Change in hardness	-1%
Change in volume	+1.5%

FLUID RESISTANCE – ASTM D 471 – STEAM - 168 hrs. @ 200° C	TEST RESULTS
Change in hardness	-4%
Change in volume	+3.2%

Date: 2016-7-1