



MARKEZ® Z1317 PERFLUOROELASTOMER

TECHNICAL DATASHEET

EXPLOSIVE DECOMPRESSION RESISTANCE PERFLUOROELASTOMER

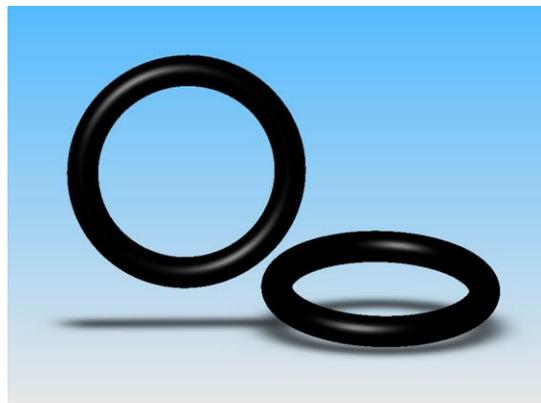
Markez Z1317 was specifically developed for the Oil and Gas industry with excellent chemical compatibility, temperature resistance and Explosive Decompression Resistance.

FEATURES AND BENEFITS

- Excellent Explosive Decompression Resistance.
- Tested to NACE TM0297 standard
- Tested up to 28 MPa (4,000 psi) in Nitrogen at 150° C (302° F) for 120 hrs. and decompressed over 20 minutes: excellent results with no cracks or blistering.
- Exceptional resistance to methanol, sour gas, hot water steams and oils.
- High sealing efficiency

APPLICATIONS

- Exploration and drilling equipment
- Chemical industry
- Subsea valves and pumps
- Compressors
- Harsh chemical environments



TYPICAL PHYSICAL PROPERTIES

Property	ASTM	Value
Material Type	FFKM	
Color		Black
Durometer, Shore A	D1415	90
Tensile Strength MPa (psi)	D412	26.0 (3,745)
Elongation at break (%)	D412	110
Modulus @ 100% MPa (psi)		25.0 (3,600)
Compression Set: 24 hrs @ 200o C (392° F) 350 hrs.@ 200o C (392° F)	D395	20% 35%
Minimum Operating Temperature		-15° C (+5° F)
Maximum Operating Temperature		+260° C (+500° F)

This information is to the best of our knowledge accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It's the customer's responsibility to evaluate parts prior to use.

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HEAT RESISTANCE – ASTM D 573 – 70 hrs. @ 275° C	TEST RESULTS
Change in hardness	+2.0%
Change in tensile strength	-10%
Change in ultimate elongation	+23%

FLUID RESISTANCE – ASTM D 471 – MEK - 720 hrs. @ 40° C	TEST RESULTS
Change in hardness	-3.0%
Change in volume	+3.5%

FLUID RESISTANCE – ASTM D 471 – WATER - 168 hrs. @ 120° C	TEST RESULTS
Change in hardness	-1.5%
Change in volume	+3.2%

FLUID RESISTANCE – ASTM D 471 – SULFURIC ACID - 70 hrs. @ 60° C	TEST RESULTS
Change in hardness	-1%
Change in volume	+0.8%

FLUID RESISTANCE – ASTM D 471 – FUEL C - 504 hrs. @ 40° C	TEST RESULTS
Change in volume	+5.0%

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