



MARKEZ® Z1401 PERFLUOROELASTOMER

TECHNICAL DATASHEET

GENERAL PURPOSE HIGH TEMPERATURE BLACK PERFLUOROELASTOMER

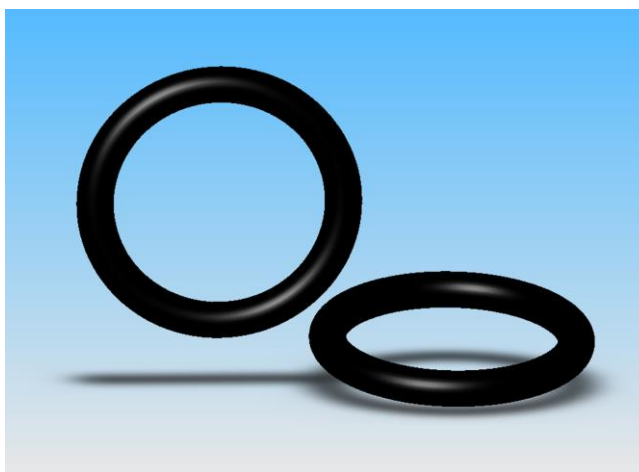
Markez Z1401 offers an almost universal chemical compatibility and high temperature resistance for use in semiconductor, Oil and Gas and general chemical applications.

FEATURES AND BENEFITS

- Almost universal chemical compatibility
- Low compression set
- Long service life
- Good dynamic properties
- Cost Effective

APPLICATIONS

- Chemical industry
- Oil and gas equipment
(not recommended for steam and amines)
- Semiconductor Applications
 - Dry etch
 - Strip
 - LPCVD
 - Litho/Track
 - Exhaust valves



TYPICAL PHYSICAL PROPERTIES

PROPERTIES	ASTM	VALUE
Color		Black
Material Type	FFKM	
Hardness: (°IRHD)	D1415	80
	D2240	
Tensile Strength MPa (PSI)	D412	11.54 (1,660)
Elongation at Break	D412	170%
Compression Set 72 hrs. @ 300°C (572 °F)	D395 Method B	31%
Minimum Operating Temperature		-30° C (-22° F)
Maximum Operating Temperature		325° C (617° 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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CHEMICAL RESISTANCE

Chemical Environment		Temperature (°C)	Z1401 Performance
Acids	Glacial Acetic Acid	100	++
	Hydrochloric Acid (37%)	80	++
	Hydrofluoric Acid (48%)	80	++
	Nitric Acid (65%)	85	++
	Sulfuric Acid (98%)	175	++
Bases	Ammonia (30%)	100	++
	Sodium Hydroxide (50%)	100	++
Alcohols	Ethanol	40	++
	Methanol	40	++
Amines	Ethylene Diamine	60	+
	Triethanolamine	40	++
Esters	Ethylacetate	40	++
Ethers	Methyl Tert Butyl Ether	23	++
Gases	Ethylene Oxide	50	+
	Propylene Oxide	50	++
Hydrocarbons	Toluene	100	++
	Trichloroethylene	40	++
Ketones	Acetone	40	++
	Methyl Ethyl Ketone	40	++

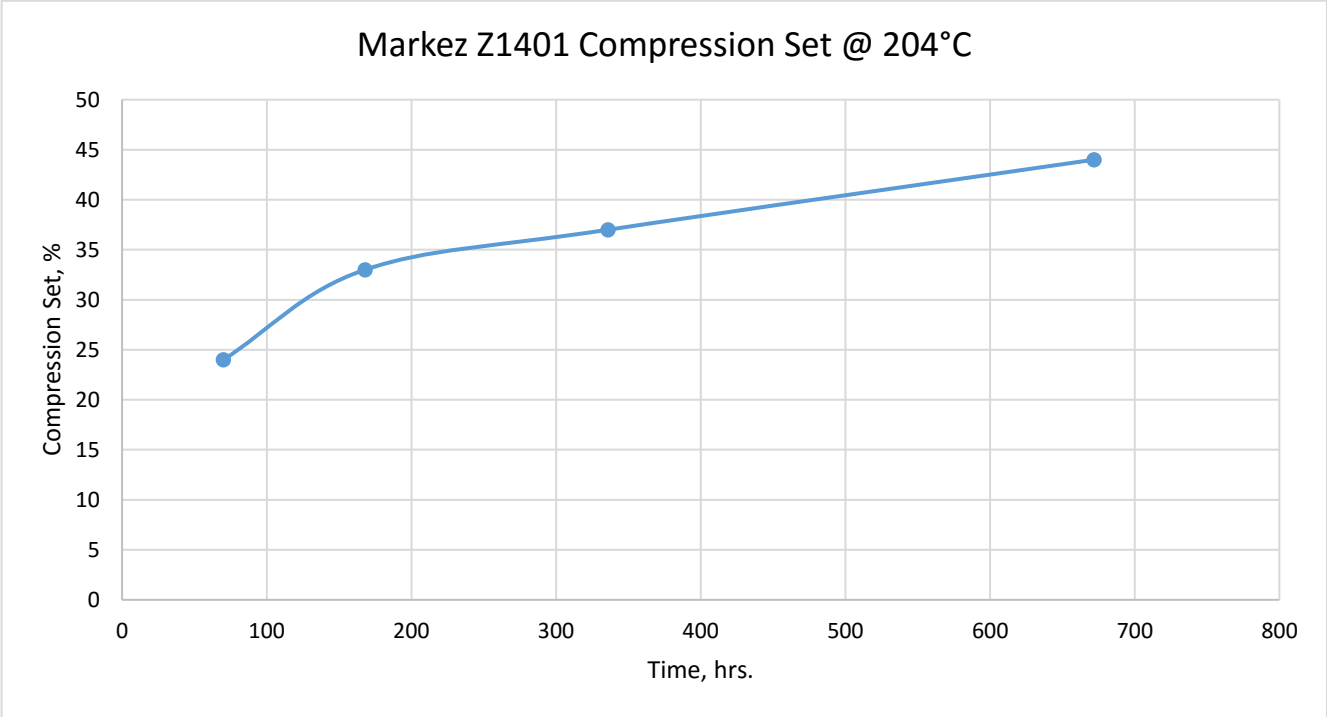
++ = Excellent + = Good x = Not Recommended

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LONG TERM COMPRESSION SET

COMPRESSION SET – B38, ASTM D 395 Method B, Permanent Set %	Typical Test Results
70 hrs. @ 204°C	24
168 hrs. @ 204°C	33
336 hrs. @ 204°C	37
672 hrs. @ 204°C	44



Date: 2016-7-1