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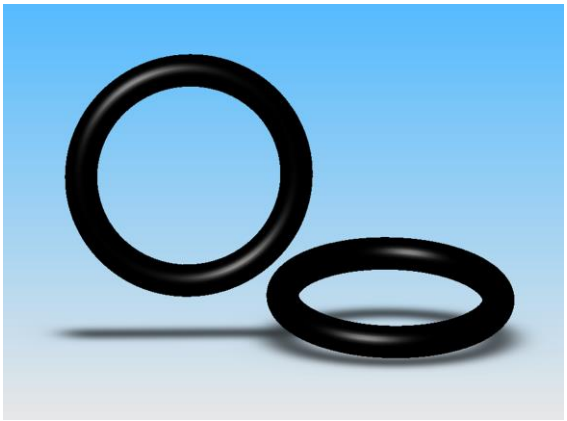
MARKEZ® Z1205 PERFLUOROELASTOMER
TECHNICAL DATASHEET

GENERAL PURPOSE Z1205 PERFLUOROELASTOMER
Markez Z1205 was developed as a general use perfluoroelastomer with excellent chemical compatibility for a wide range of applications in the chemical and industrial fields.

FEATURES AND BENEFITS
- Wide chemical compatibility. Shows little effect when exposed to a wide range of solvents, acids and other aggressive chemicals.
- One of the most economical compounds in the market.



CHEMICAL COMPATIBILITY

- Acids & Bases
- Solvents
- Alcohols
- Aldehydes
- Amines
- Triethylamine
- Sodium Hydroxide
- Steam/Hot Water
- Chemical & Hydrocarbon Processing
- Aromatic/Aliphatic Oils
- Ethers
- Esters
- Ketones
- MEK
- Oxidizers

APPLICATION EXAMPLES

- Chemical sprayers
- Chemical injectors
- Chemical reactors
- Connectors & filters
- Down-hole equipment
- Ink handling equipment
- Instrumentation
- Liquid chromatography equipment
- Mechanical seals
- Painting equipment
- Pumps & Valves

TYPICAL PHYSICAL PROPERTIES

PROPERTIES	ASTM	VALUE
Color		Black
Material Type	FFKM	
Hardness, Shore A	D2240	75
Tensile Strength, MPa (PSI)	D412	18.00 (2,600)
Elongation at Break	D412	190%
Compression Set 72 hrs. @ 200°C (392 °F)	D395	25%
Minimum Operating Temperature		-7°C (20°F)
Maximum Operating Temperature		230°C (450°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.
Markez® is a Registered Trade name of Marco Rubber.

Markez Z1205 Test Data in Various Environments

Markez Z1205 shows excellent resistance to solvents and a good overall performance in most chemical environments. For added resistance to strong acids, we recommend Markez Z1210 compound.

COMPRESSION SET, ASTM D1414

% Permanent Set, 70 hours at 200°C	25
% Permanent Set, 500 hours at 200°C	31
% Permanent Set, 1,000 hours at 200°C	40
% Permanent Set, 70 hours at 250°C	45

WATER BOMB IMMERSION, ASTM D471, 70 hrs at 200°C

Volume Change, %	+5.1

STEAM IMMERSION, ASTM D471

% Volume change, 70 hrs. at 160°C	+2.0
% Volume change, 500 hrs. at 160°C	+3.0
% Volume change, 1000 hrs. at 160°C	+3.0

HEXAMETHYLENE DIAMINE IMMERSION, ASTM D471, 70 hrs at 140°C

% Volume change	+6.8

ACETONE IMMERSION, ASRM D471, 70 hrs at 23°C

% Volume change	+0.5

20% NITRIC ACID IMMERSION, ASTM D471, 70 hrs at 100°C

% Volume change	+12.0

IMMERSION IN TYPICAL AUTOMOTIVE PAINT SOLVENTS, 70 hrs. at 40°C

Acetone, % Volume change	+4.2
Ethyl Acetate, % Volume change	+3.8
Toluene, % Volume change	+0.4
Xylene, % Volume change	+0.2
Methyl Ethyl Ketone (MEK)	+4.7
Methyl Isobutyl Ketone (MIBK)	+3.8

TEMPERATURE RETRACTION, ASTM D1329

TR-10, Degrees C	-7

Note: All testing was done on AS568-214 size O-rings

Date: 2016-7-1

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