Request a Quote

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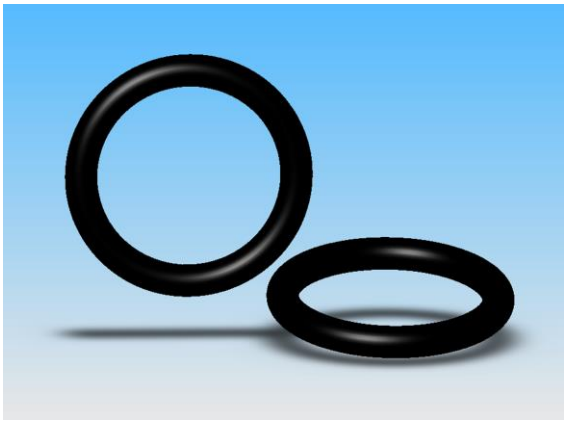
MARKEZ® Z1205 PERFLUOROELASTOMER
TECHNICAL DATASHEET

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)

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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