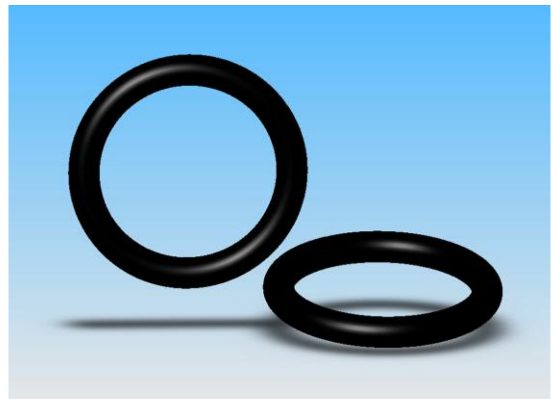
Request a Quote

(800) 775-6525
sales@marcorubber.com
www.marcorubber.com

MARKEZ® Z1352 PERFLUOROELASTOMER
TECHNICAL DATASHEET



GENERAL USE BLACK PERFLUOROELASTOMER

This compound offers an almost universal chemical compatibility for use in semiconductor, Oil and Gas and general chemical applications. Its unique cross-linking processing results in an enhanced chemical resistance to strong acids and amine resistance.

FEATURES AND BENEFITS

- Hot amine resistance
- Excellent acid resistance
- Low compression set
- Excellent resistance to a wide range of chemicals
- High sealing efficiency

APPLICATIONS

- Chemical industry
- Valves and pumps
- Pressure vessels
- Couplings and fittings
- Harsh chemical environments
- Compressors (high H_2S concentration environments)

TYPICAL PHYSICAL PROPERTIES

Property	ASTM	Value
Material Type	**FFKM**	
Color	-----	Black
Durometer, Shore A	D1415	77
Tensile Strength (psi)	D412	2,305
Elongation at break (%)	D412	120
Modulus @ 100% (psi)	D412	2,016
Compression Set: 24 hrs @ 200° C (392° F)	D395	20%
Minimum Operating Temperature *	-----	-15° C (+5° F)
Maximum Operating Temperature *	-----	+260° C (+500° F)
Maximum Operating Pressure (psi) *	-----	1500

* Marco proprietary test method – temperature and pressure limits may vary with seal / hardware design and application conditions

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FLUID IMMERSION TEST RESULTS

Ethylenediamine, 72h at 100°C		
Hardness Change	Pts	-4
Tensile Strength Change	%	-35
Elongation at Break Change	%	+13
Volume Change	%	+6
Ethanolamine, 72h at 150°C		
Hardness Change	Pts	-9
Tensile Strength Change	%	-30
Elongation at Break Change	%	+9
Volume Change	%	+17
NH3 28%, 336h at 100°C		
Hardness Change	Pts	-3
Tensile Strength Change	%	-19
Elongation at Break Change	%	-16
Volume Change	%	+4
TMAH 25%, 168h at 90°C		
Hardness Change	Pts	**-2**
Tensile Strength Change	%	-2
Elongation at Break Change	%	-12
Volume Change	%	0
Diglycolamine, 168h at 150°C		
Hardness Change	Pts	-10
Tensile Strength Change	%	-35
Elongation at Break Change	%	+11
Volume Change	%	+20
Diglycolamine, 168h at 200°C		
Hardness Change	Pts	-22
Tensile Strength Change	%	-62
Elongation at Break Change	%	+3
Volume Change	%	+39
MDEA (N-methyl diethanolamine, 168h at 150°C		
Hardness Change	Pts	-2
Tensile Strength Change	%	-22
Elongation at Break Change	%	-2
Volume Change	%	+2
MDEA (N-methyl diethanolamine, 168h at 200°C		
Hardness Change	Pts	-5
Tensile Strength Change	%	-38
Elongation at Break Change	%	-6
Volume Change	%	+8

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Dipropylamine, 168h at 150°C

Hardness Change	Pts	-4
Tensile Strength Change	%	-27
Elongation at Break Change	%	-14
Volume Change	%	+6

Dipropylamine, 168h at 200°C

Hardness Change	Pts	-5
Tensile Strength Change	%	-29
Elongation at Break Change	%	-10
Volume Change	%	+7

HN0365%, 72h at8O°C

Hardness Change	Pts	-5
Tensile Strength Change	%	-30
Elongation at Break Change	%	+6
Volume Change	%	+5

Glacial acetic acid, 336h at 100°C

Hardness Change	Pts	-5
Tensile Strength Change	%	-13
Elongation at Break Change	%	-15
Volume Change	%	+5

Formic acid 85%, 168h at 200°C

Hardness Change	Pts	-5
Tensile Strength Change	%	-14
Elongation at Break Change	%	-5
Volume Change	%	+7

Date: 2016-7-1