



DICHTOMATIK
Any seal. Any time.

a brand of
FREUDENBERG

Technical data sheet in accordance with ASTM

Material NBR NB901803

black

cross linking: sulfur

print date 10/2/2017 **revision index** 2 **revision date** 7/3/2017

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Physical properties

	required	actual	
Density	1.36 ±0.02	1.36	g/cm ³
Hardness ASTM D2240, Shore A, 23 °C	90 ±5	90	Shore
Tensile strength ASTM D412	---	17.7	MPa
Elongation at Break ASTM D412	---	170	%
Compression set ISO 815, 72 h, 0 °C, 25 %	---	3.1	%
Compression set ISO 815, 168 h, 100 °C, 25 %	---	26.2	%
Low temperature test ASTM D1329, TR10	---	-28.8	°C
Ozone Resistance ISO 1431, 30 °C, 24 h, 50 pphm	---	0	Stufe

Certificates	Country	Part	Remark	Expires	unlimited
DVGW Baumusterprüfzertifikat Gas	D		DIN EN 549 H3 B1	11 / 2021	☐
DVGW Baumusterprüfzertifikat Gas (en)	D		DIN EN 549 H3 B1	11 / 2021	☐
RoHS			2015/863/EU and 2011/65/EU		☒

Change after aging in Air: 70h/100°C

Typ. values

		base	after aging	difference
Hardness (ASTM D2240, Shore A)	Shore	90	92	2
Tensile strength (ASTM D412)	MPa	17.7	18.6	5 %
Elongation at Break (ASTM D412)	%	170	147.9	-13 %

Freudenberg

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Change after aging in Air: 168h/100°C

		Typ. values		
		base	after aging	difference
Hardness (ASTM D2240, Shore A)	Shore	90	93	3
Tensile strength (ASTM D412)	MPa	17.7	18.8	6 %
Elongation at Break (ASTM D412)	%	170	129.2	-24 %

Change after aging in ASTM-Oil No. 1: 70h/100°C

		Typ. values		
		base	after aging	difference
Hardness (ASTM D2240, Shore A)	Shore	90	92	2
Tensile strength (ASTM D412)	MPa	17.7	18.8	6 %
Elongation at Break (ASTM D412)	%	170	139.4	-18 %
volume change (ASTM D471)	%		-2.7	

Change after aging in ASTM-Oil No. 3: 70h/100°C

		Typ. values		
		base	after aging	difference
Hardness (ASTM D2240, Shore A)	Shore	90	83	-7
Tensile strength (ASTM D412)	MPa	17.7	20.2	14 %
Elongation at Break (ASTM D412)	%	170	166.6	-2 %
volume change (ASTM D471)	%		8.8	

Change after aging in Water: 70h/100°C

		Typ. values		
		base	after aging	difference
Hardness (ASTM D2240, Shore A)	Shore	90	90	0
Tensile strength (ASTM D412)	MPa	17.7	19.5	10 %
Elongation at Break (ASTM D412)	%	170	170	0 %
volume change (ASTM D471)	%		2.7	

The given values are based on a limited number of tests on standard test pieces (2mm sheets). The data from finished parts can deviate from above values depending on the manufacturing process and the component geometry.

The data represents our present empirical values. It is incumbent on the person placing the order to examine whether it is suitable for its intended purpose, before using the product. All questions regarding the guarantee of this product are in line with our terms and conditions, inasmuch as statutory provisions do not plan for something else.

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