DICHTOMATIK

FREUDENBERG
INNOVATING TOGETHER

Technical data sheet in accordance with ASTM

Material
NBR NB904801

black

cross linking: sulfur

revision index	revision date		
1	11/7/2017	page	1 / 4

Physical properties	nominal range	typical values	
Density ASTM D 297	1.32 ±0.03	1.32	g/cm³
Hardness ASTM D 2240, Shore A	90 ±5	90	Shore
Tensile strength ASTM D 412	---	15	MPa
Elongation at break ASTM D 412	---	130	%
Tear strength ASTM D 624 B	---	50	KN/m
Low temperature test ASTM D 1329, TR10	---	-23	°C
Low temperature test ASTM D 2137 A, brittleness point	---	-25	°C
Compression set ASTM D 395 B, 22 h, 100 °C	---	12	%
Compression set ASTM D 395 B, 70 h, 125 °C	---	30	%

Declarations of conformity

This overview is purely informative and does not constitute a declaration of conformity (DoC). Please refer to the actual declaration of conformity (DoC) including the conditions and its validity period.

Country	Part	Remark	Expires
Info ROHS and ELV		EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

Freudenberg

Freudenberg Industrial Services GmbH
Global Material Technology
Nadja Güldner
Telefon: -
Fax: -
Email: FIS.Compound.CRC@fst.com

Technical data sheet in accordance with ASTM

Material
NBR NB904801

black

cross linking: sulfur

revision index	revision date		
1	11/7/2017	page	2 / 4

Change after aging in Air: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	90	94	4
Tensile strength (ASTM D412)	MPa	15	16.5	10 %
Elongation at break (ASTM D412)	%	130	93.6	-28 %

Change after aging in ASTM fuel A: 70h/23°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	90	90	0
Tensile strength (ASTM D412)	MPa	15	13.8	-8 %
Elongation at break (ASTM D412)	%	130	120.9	-7 %
volume change (ASTM D471)	%		-0.5	

Change after aging in ASTM fuel B: 70h/23°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	90	75	-15
Tensile strength (ASTM D412)	MPa	15	9.8	-35 %
Elongation at break (ASTM D412)	%	130	87.1	-33 %
volume change (ASTM D471)	%		24	

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	90	94	4
Tensile strength (ASTM D412)	MPa	15	15.9	6 %
Elongation at break (ASTM D412)	%	130	91	-30 %
volume change (ASTM D471)	%		-8	

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	90	88	-2
Tensile strength (ASTM D412)	MPa	15	14.3	-5 %
Elongation at break (ASTM D412)	%	130	110.5	-15 %
volume change (ASTM D471)	%		5	

Freudenberg

Freudenberg Industrial Services GmbH
Global Material Technology
Nadja Güldner
Telefon: -
Fax: -
Email: FIS.Compound.CRC@fst.com

Technical data sheet in accordance with ASTM

Material
NBR NB904801

black

cross linking: sulfur

revision index	revision date		page 3 / 4
1	11/7/2017		

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	90	89	-1
Tensile strength (ASTM D412)	MPa	15	15	0 %
Elongation at break (ASTM D412)	%	130	93.6	-28 %
volume change (ASTM D471)	%		5	

Freudenberg

Freudenberg Industrial Services GmbH
Global Material Technology
Nadja Güldner
Telefon: -
Fax: -
Email: FIS.Compound.CRC@fst.com

Technical data sheet in accordance with ASTM

Material
NBR NB904801

black

cross linking: sulfur

revision index	revision date		
1	11/7/2017	**page**	4 / 4

No ASTM D2000 properties available

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 manufactories 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 provisons do not plan for something else.

Freudenberg

Freudenberg Industrial Services GmbH
Global Material Technology
Nadja Güldner
Telefon: -
Fax: -
Email: FIS.Compound.CRC@fst.com