



Technical data sheet in accordance with DIN

Material NBR NB702717

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 DIN 53479	1.23 ±0.02	1.23	g/cm ³
Hardness DIN 53505, Shore A	70 ±5	70	Shore
Tensile strength DIN 53504	---	15	MPa
Elongation at Break DIN 53504	---	340	%
Compression set DIN 53517, A, 168 h, 100 °C, 25 %	---	31	%
Compression set DIN 53517, A, 72 h, 0 °C, 25 %	---	13	%
Compression set DIN 53517, A, 22 h, 100 °C, 25 %	---	13	%
Compression set DIN 53517, A, 72 h, -20 °C, 25 %	---	44	%
Low-temperature resistance DIN 53546, brittleness point	---	-34	°C

Temperature range -30°C to 100°C

Certificates	Country	Part	Remark	Expires	unlimited
DVGW Baumusterprüfzertifikat Gas	D		DIN EN 549 H3 B2	07 / 2019	☐
RoHS			2015/863/EU and 2011/65/EU		☒

Change after aging in Air: 168h/100°C

Typ. values

		base	after aging	difference
Hardness (DIN 53505, Shore A)	Shore	70	77	7
Tensile strength (DIN 53504)	MPa	15	16.5	10 %
Elongation at Break (DIN 53504)	%	340	251.6	-26 %
volume change (DIN 53508)	%		7	

Freudenberg

Dichtomatik Vertriebsgesellschaft für Technische Dichtungen mbH
Material Center Hamburg
Viviane Rellstab

Phone: +49 40 66989 316
Fax: 040 66989 9316
Email: Viviane.Rellstab@dichtomatik.de



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Change after aging in Air: 72h/125°C

		Typ. values		
		base	after aging	difference
Hardness (DIN 53505, Shore A)	Shore	70	79	9
Tensile strength (DIN 53504)	MPa	15	15.3	2 %
Elongation at Break (DIN 53504)	%	340	221	-35 %

Change after aging in ASTM-Oil No. 1: 72h/100°C

		Typ. values		
		base	after aging	difference
Hardness (DIN 53505, Shore A)	Shore	70	75	5
Tensile strength (DIN 53504)	MPa	15	16.5	10 %
Elongation at Break (DIN 53504)	%	340	261.8	-23 %
volume change (DIN 53508)	%		-7	

Change after aging in ASTM-Oil No. 3: 72h/100°C

		Typ. values		
		base	after aging	difference
Hardness (DIN 53505, Shore A)	Shore	70	64	-6
Tensile strength (DIN 53504)	MPa	15	15.8	5 %
Elongation at Break (DIN 53504)	%	340	289	-15 %
volume change (DIN 53508)	%		8	

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

		Typ. values		
		base	after aging	difference
Hardness (DIN 53505, Shore A)	Shore	70	70	0
Tensile strength (DIN 53504)	MPa	15	16.2	8 %
Elongation at Break (DIN 53504)	%	340	292.4	-14 %
volume change (DIN 53508)	%		3	

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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Fax: 040 66989 9316
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