

Material

NBR NB702717

black

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Physical properties

	nominal range	typical values	
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, Slab A, 168 h, 100 °C, 25 %	---	31	%
Compression set DIN 53517, Slab A, 72 h, 0 °C, 25 %	---	13	%
Compression set DIN 53517, Slab A, 22 h, 100 °C, 25 %	---	13	%
Compression set DIN 53517, Slab A, 72 h, -20 °C, 25 %	---	44	%
Low-temperature resistance DIN 53546, brittleness point	---	-34	
Low temperature test ASTM D1329, TR10	---	-30	°C
Low temperature test ASTM D1329, TR50	---	-23	°C
Temperature range	-30°C to 100°C		

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
ADI Free DVGW	D		see certificate DIN EN 549 H3 B2	see DoC 07 / 2024

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Country	Part	Remark	Expires
	Baumusterprüfzertifikat Gas RoHS conform	including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

Change after aging in Air: 168h/100°C

Hardness (DIN 53505, Shore A)
Tensile strength (DIN 53504)
Elongation at break (DIN 53504)

	Typ. values		
	Base value	After aging	difference
Shore	70	77	7
MPa	15	16.5	10 %
%	340	251.6	-26 %

Change after aging in Air: 72h/125°C

Hardness (DIN 53505, Shore A)
Tensile strength (DIN 53504)
Elongation at break (DIN 53504)

	Typ. values		
	Base value	After aging	difference
Shore	70	79	9
MPa	15	15.3	2 %
%	340	221	-35 %

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

Hardness (DIN 53505, Shore A)
Tensile strength (DIN 53504)
Elongation at break (DIN 53504)
volume change (DIN 53508)

	Typ. values		
	Base value	After aging	difference
Shore	70	75	5
MPa	15	16.5	10 %
%	340	261.8	-23 %
%		-7	

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

Hardness (DIN 53505, Shore A)
Tensile strength (DIN 53504)
Elongation at break (DIN 53504)
volume change (DIN 53508)

	Typ. values		
	Base value	After aging	difference
Shore	70	64	-6
MPa	15	15.8	5 %
%	340	289	-15 %
%		8	

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

Hardness (DIN 53505, Shore A)
Tensile strength (DIN 53504)
Elongation at break (DIN 53504)
volume change (DIN 53508)

	Typ. values		
	Base value	After aging	difference
Shore	70	70	0
MPa	15	16.2	8 %
%	340	292.4	-14 %
%		3	

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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 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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