

Technical data sheet in accordance with ASTM

Material

70 NBR N701R

black

cross linking: sulfur

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Physical properties

Density

ASTM D1817, 23 °C

nominal range

1.28 ±0.02

typical values

1.28

g/cm³

Hardness

ASTM D2240, Shore A, 23 °C

70 ±5

73

Shore

Modulus

100 %, ASTM D412, C, 23 °C

MPa

Tensile strength

ASTM D412, C, 23 °C

> 14

18.4

MPa

Elongation at Break

ASTM D412, C, 23 °C

> 250

506

%

Temperature range

-40°C to 100°C

Declarations of conformity

No data found!

Freudenberg

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Tested after ASTM D 2000: M 2 BG 714 B14 EA14 EF11 EF21 EO14 EO34 Z1

		nominal range	typical values
Hardness	Shore	70 ±5	73
Tensile strength	MPa	min. 14	18.4
Elongation at break	%	min. 250	506
A14 Change after aging in Air 70h/100°C			
Hardness	Shore A	---	7
Tensile strength	%	---	6
Elongation at break	%	---	-16
B14 Compression set 22h/100°C			
	%	25	8
EA14 Change after aging in Distilled water 70h/100°C			
Hardness	Shore A	±10	-2
Volume	%	±15	4
EF11 Change after aging in Fuel A 70h/23°C			
Hardness	Shore A	±10	0
Tensile strength	%	-25	-6
Elongation at break	%	-25	-8
Volume	%	-5 to 10	0
EF21 Change after aging in Fuel B 70h/23°C			
Hardness	Shore A	0 to -30	-11
Tensile strength	%	-60	-24
Elongation at break	%	-60	-26
Volume	%	0 to 40	15
EO14 Change after aging in IRM 901 70h/100°C			
Hardness	Shore A	-5 to 10	7
Tensile strength	%	-25	5

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1	7/28/2021			
		Elongation at break	%	-45
		Volume	%	-10 to 5
				-19
				-7
EO34 Change after aging in IRM 903 70h/100°C				
		Hardness	Shore A	-10 to 5
		Tensile strength	%	-45
		Elongation at break	%	-45
		Volume	%	0 to 25
				0
				2
				-16
				3
Z1	Specific Gravity ASTM D1817		g/cc	---
				1.28

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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