

Technical data sheet in accordance with ASTM

Material

70 NBR N7014Z

black

cross linking: sulfur

revision index

1

revision date

9/30/2021

page

1 / 3

Physical properties

	nominal range	typical values	
Density ASTM D297	---	1.24	g/cm ³
Hardness ASTM D2240, Shore A	70 ±5	70	Shore
Modulus 100 %, ASTM D412	---	3	MPa
Modulus 200 %, ASTM D412	---	8.7	MPa
Modulus 300 %, ASTM D412	---	13	MPa
Tensile strength ASTM D412	> 10	16.1	MPa
Elongation at break ASTM D412	> 250	411	%
Compression set ASTM D395, Slab B, 22 h, 100 °C, max	< 25	11	%

Declarations of conformity

No data found!

Freudenberg

Freudenberg FST GmbH
Technology&Innovation
Material Compliance

Telefon: -

Fax: -

Email: MaterialCompliance@fst.com

Technical data sheet in accordance with ASTM

Material

70 NBR N7014Z

black

cross linking: sulfur

revision index

revision date

1

9/30/2021

page

2 / 3

Tested after ASTM D 2000: M 2 BG 710 B14 EA14 EF11 EF21 EO14 EO34 Z1 Z2 Z3 Z4 Z5 Z6 Z7

		nominal range	typical values
Hardness	Shore	70 ±5	70
Tensile strength	MPa	min. 10	16.1
Elongation at break	%	min. 250	411
B14 Compression set 22h/100°C	%	25	11
EA14 Change after aging in Distilled water 70h/100°C			
Hardness	Shore A	±10	-4
Volume	%	±15	7.6
EF11 Change after aging in Fuel A 70h/23°C			
Hardness	Shore A	±10	-2
Tensile strength	%	-25	-3
Elongation at break	%	-25	0
Volume	%	-5 to 10	1.2
EF21 Change after aging in Fuel B 70h/23°C			
Hardness	Shore A	0 to -30	-19
Tensile strength	%	-60	-28
Elongation at break	%	-60	-24
Volume	%	0 to 40	20.9
EO14 Change after aging in IRM 901 70h/100°C			
Hardness	Shore A	-5 to 10	7
Tensile strength	%	-25	17
Elongation at break	%	-45	-4
Volume	%	-10 to 5	-8.3

EO34 Change after aging in IRM 903 70h/100°C

Freudenberg

Freudenberg FST GmbH

Technology&Innovation

Material Compliance

Telefon: -

Fax: -

Email: MaterialCompliance@fst.com

Technical data sheet in accordance with ASTM

Material

70 NBR N7014Z

black

cross linking: sulfur

revision index	revision date		page	3 / 3
1	9/30/2021			
		Hardness	Shore A	-10 to 5
		Tensile strength	%	-45
		Elongation at break	%	-45
		Volume	%	0 to 25
Z1	Tear strength ASTM D624	KN/m	---	53.94
Z2	Modulus 100 %, ASTM D412	MPa	---	3.67
Z3	Modulus 200 %, ASTM D412	MPa	---	8.72
Z4	Modulus 300 %, ASTM D412	MPa	---	13.49
Z5	Density	g/cm ³	---	1.242
Z6	Change after aging in Air 70h/100°C			
	Hardness Shore A	Shore	±15	3
	Tensile strength	%	±30	9
	Elongation at break	%	-50	-11
	Volume	%	---	-0.8
Z7	Change after aging in Distilled water 70h/100°C			
	Tensile strength	%	---	3
	Elongation at break	%	---	-4

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.

Freudenberg

Freudenberg FST GmbH

Technology&Innovation

Material Compliance

Telefon: -

Fax: -

Email: MaterialCompliance@fst.com