

Technical data sheet in accordance with ASTM

# Material

## 70 HNBR H703AGR

green

cross linking: sulfur

**revision index**

1

**revision date**

12/8/2021

**page**

1 / 3

### Physical properties

	nominal range	typical values	
<b>Density</b> CNS 5341, 23 °C	---	1.34	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D2240, Shore A, 23 °C	70 ±5	73	Shore
<b>Modulus</b> 100 %, ASTM D412, C, 23 °C	---	7.94	MPa
<b>Tensile strength</b> ASTM D412, C, 23 °C	> 16	22.26	MPa
<b>Elongation at break</b> ASTM D412, C, 23 °C	> 250	298	%
<b>Compression set</b> ASTM D395, Slab B, 22 h, 150 °C, Plied	< 35	17.9	%

### 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 HNBR H703AGR

green

cross linking: sulfur

revision index

revision date

1

12/8/2021

page

2 / 3

Tested after ASTM D 2000: M 4 DH 716 A26 B36 EO16 EO36 F17 Z1 Z2 Z3

		nominal range	typical values
Hardness	Shore	70 ±5	73
Tensile strength	MPa	min. 16	22.26
Elongation at break	%	min. 250	298
<b>A26 Change after aging in Air 70h/150°C</b>			
Hardness	Shore	10	3
Tensile strength	MPa	-15	-4
Elongation at break	%	-25	-10
<b>B36 Compression set 22h/150°C</b>			
	%	35	17.9
<b>EO16 Change after aging in IRM 901 70h/150°C</b>			
Hardness	Shore	-5 to 10	2
Tensile strength	MPa	-20	6
Elongation at break	%	-30	-5
Volume	%	-10 to 5	-2.2
<b>EO36 Change after aging in IRM 903 70h/150°C</b>			
Hardness	Shore	-15	-5
Tensile strength	MPa	-40	-8
Elongation at break	%	-30	-11
Volume	%	25	11.1
<b>F17 Low-temperature resistance after 3 min at -40 °C 3min./-40°C</b>			
		pass	pass
<b>Z1 Modulus 100 %, ASTM D412, 23 °C</b>			
	MPa	---	7.94
<b>Z2 Density CNS 5341, 23 °C</b>			
	g/cm <sup>3</sup>	---	1.34
<b>Z3 Change after aging in Air 70h/150°C</b>			

### Freudenberg

Freudenberg FST GmbH

Technology&Innovation

Material Compliance

Telefon: -

Fax: -

Email: MaterialCompliance@fst.com

Technical data sheet in accordance with ASTM

## Material

### 70 HNBR H703AGR

green

cross linking: sulfur

revision index	revision date		page	
1	12/8/2021		3 / 3	
weight change		%	---	-0.6

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](mailto:MaterialCompliance@fst.com)