

## Material 45 NBR 670

black

cross linking: sulfur

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### Physical properties

	<b>nominal range</b>	<b>typical values</b>	
<b>Density</b> DIN EN ISO 1183-1	---	1.14	g/cm <sup>3</sup>
<b>Hardness</b> DIN ISO 7619-1	45 ±5	43	Shore
<b>Rebound resilience</b> DIN 53512	---	45	%
<b>Modulus</b> 100 %, DIN 53504, S2	> 0.5	1.1	MPa
<b>Tensile strength</b> DIN 53504, S2	> 7	9.5	MPa
<b>Elongation at break</b> DIN 53504, S2	> 600	980	%
<b>Compression set</b> DIN ISO 815, 22 h, 100 °C	---	40	%

### Declarations of conformity

**No data found!**

### Freudenberg

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Tested after ASTM D 2000: M 5 BG 507 A14 B14 EO14 EO34

		nominal range	typical values
Hardness	Shore	50 ±5	43
Tensile strength	MPa	min. 7	9.6
Elongation at break	%	min. 350	970
<b>A14 Change after aging in Air 70h/100°C</b>			
Hardness	Shore A	±15	4
Tensile strength	%	-20	14
Elongation at break	%	-40	-18
<b>B14 Compression set 22h/100°C</b>			
	%	25	34
<b>EO14 Change after aging in IRM 901 70h/100°C</b>			
Hardness	Shore A	-5 to 15	10
Tensile strength	%	-25	23
Elongation at break	%	-45	-13
Volume	%	-10 to 5	-12
<b>EO34 Change after aging in IRM 903 70h/100°C</b>			
Hardness	Shore A	0 to -15	-1
Tensile strength	%	-45	-3
Elongation at break	%	-45	-5
Volume	%	0 to 35	2

The given values are based on a limited number of tests on standard test pieces (2mm sheets) produced in the laboratory. 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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