

## Material 50 NBR 253

black

cross linking: sulfur

**Attention! Not for new samples**

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## possible replacement material: 50 NBR 216214

### Physical properties

	nominal range	typical values	
<b>Density</b> DIN EN ISO 1183-1	1.11 ±0.02	1.11	g/cm <sup>3</sup>
<b>Hardness</b> DIN ISO 7619-1	50 ±5	50	Shore
<b>Rebound resilience</b> DIN 53512	---	39	%
<b>Modulus</b> 100 %, DIN 53504, S2	> 0.8	1.2	MPa
<b>Tensile strength</b> DIN 53504, S2	> 11	14.8	MPa
<b>Elongation at break</b> DIN 53504, S2	> 500	620	%
<b>Compression set</b> DIN ISO 815, 22 h, 100 °C	< 35	25	%
<b>Temperature range</b>	-45°C to 80°C		

### Declarations of conformity

	Country	Part	Remark	Expires	unlimited
RoHS conform			including EU 2011/65 and EU2015/863 (ROHS III)		<input checked="" type="checkbox"/>

### Freudenberg

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Tested after ASTM D 2000: M 5 BG 510 A14 B14 B34 EO14 EO34 F19

		nominal range	typical values
Hardness	Shore	50 ±5	49
Tensile strength	MPa	min. 10	14.1
Elongation at break	%	min. 300	530
<b>A14 Change after aging in Air 70h/100°C</b>			
Hardness	Shore A	±15	7
Tensile strength	%	-20	-7
Elongation at break	%	-40	-25
<b>B14 Compression set 22h/100°C</b>	%	25	11
<b>B34 Compression set 22h/100°C</b>	%	25	14
<b>EO14 Change after aging in IRM 901 70h/100°C</b>			
Hardness	Shore A	-5 to 15	5
Tensile strength	%	-25	10
Elongation at break	%	-45	-20
Volume	%	-10 to 5	-6
<b>EO34 Change after aging in IRM 903 70h/100°C</b>			
Hardness	Shore A	0 to -15	-19
Tensile strength	%	-45	-40
Elongation at break	%	-45	-40
Volume	%	0 to 35	48
<b>F19 Low-temperature resistance after 3 min at -55 °C 3min./-55°C</b>			pass

Surface resistance  $R_o$  according to DIN IEC 93 / VDE 0303 part 30:  $5,2 \times 10^5$

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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 manufactories 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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