

# Material

## 70 NBR 438

black

cross linking: peroxidic

<b>revision index</b>	<b>revision date</b>	<b>page</b>	1 / 2
4	10/18/2018		

Physical properties	nominal range	typical values	
<b>Density</b> DIN EN ISO 1183, 23 °C	1.17 ±0.02	1.17	g/cm <sup>3</sup>
<b>Hardness</b> DIN ISO 7619-1, Shore A, 23 °C	70 ±5	71	Shore
<b>Modulus</b> 100 %, DIN 53504, S2, 23 °C	> 4	5.3	MPa
<b>Tensile strength</b> DIN 53504, S2, 23 °C	> 12.5	14.2	MPa
<b>Elongation at break</b> DIN 53504, S2, 23 °C	> 220	295	%
<b>Compression set</b> DIN ISO 815, Slab B, 70 h, 125 °C, 25 %	< 30	24	%
<b>Compression set</b> DIN ISO 815, Slab B, 22 h, 100 °C, 25 %	< 20	14	%
<b>Low Temperature</b> ISO 11357-2, DSC	---	-25	°C
<b>Temperature range</b>	-25°C to 100°C		

### Declarations of conformity

This overview is purely informative and does not constitute a declaration of conformity (DoC). Please refer to the actual declaration of conformity (DoC) including the conditions and its validity period.

	Country	Part	Remark	Expires
(EG) 1935/2004	EU		food	see DoC
(EG) 2023/2006 (GMP)	EU		(EG) 2023/2006 (GMP)	see DoC
3-A Sanitary	USA	Seals	Class II	12 / 2027
ADI Free			see certificate	see DoC
BFR XXI, Kat 4	DE		food	see DoC
BPA/Phthalate free			BPA/Phthalate free	see DoC
FDA	USA	Seals	§ 177.2600	see DoC

### Freudenberg

Freudenberg FST GmbH  
Technology&Innovation  
Material Compliance

Telefon: -  
Fax: -  
Email: [MaterialCompliance@fst.com](mailto:MaterialCompliance@fst.com)



## Material 70 NBR 438

black

cross linking: peroxidic

**revision index**

4

**revision date**

10/18/2018

**page** 2 / 2

### No ASTM D2000 properties available

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)

