

# Material

## EPDM EP703904

black

cross linking: peroxidic

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### Physical properties

	nominal range	typical values	
<b>Density</b> ISO 2781 A	1.15 ±0.02	1.15	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D 2240, Shore A	70 ±5	72	Shore
<b>Modulus</b> 100 %, ISO 37	---	4.5	MPa
<b>Tensile strength</b> ISO 37	---	17	MPa
<b>Elongation at break</b> ISO 37	---	210	%
<b>Tear strength</b> ISO 34-1 A	---	4	KN/m
<b>Compression set</b> DIN ISO 815-1, Slab B, 22 h, 100 °C	---	7	%
<b>Compression set</b> DIN ISO 815-1, Slab B, 22 h, 150 °C	---	10	%
<b>Low temperature test</b> ISO 2921, TR10	---	-42	°C
<b>Low Temperature resistance</b> DIN ISO 812, Brittleness	---	-70	°C
<b>Low Temperature</b> ISO 11357-2, DSC	---	-50	°C
<b>Ozone Resistance</b> ISO 1431-1, 40 °C, 70 h, 200 pphm, no brittle	---	0	Rating
<b>Temperature range</b>	-65°C to 150°C	short term: 160°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.

### Freudenberg

Freudenberg Industrial Services GmbH  
 Global Material Technology  
 Nadja Güldner  
 Telefon: -  
 Fax: -  
 Email: FIS.Compound.CRC@fst.com

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	Country	Part	Remark	Expires
(EG) 1935/2004	EU		food	see DoC
FDA	USA	Seals	\$ 177.2600	see DoC
Info ROHS and ELV			EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC
PFOA / PFOS free			see certificate	see DoC
WRAS BS 6920	GB			01 / 2029

### Change after aging in Air: 70h/100°C

#### Typ. values

		Base value	After aging	difference
Hardness (ISO 188 B, Shore A)	Shore	72	73	1
Tensile strength (ISO 188 B)	MPa	17	15.6	-8 %
Elongation at break (ISO 188 B)	%	210	184.8	-12 %
volume change (ISO 188 B)	%		-0.1	
weight change	%		-0.1	

### Change after aging in Air: 70h/150°C

#### Typ. values

		Base value	After aging	difference
Hardness (ISO 188 B, Shore A)	Shore	72	76	4
Tensile strength (ISO 188 B)	MPa	17	15.3	-10 %
Elongation at break (ISO 188 B)	%	210	184.8	-12 %
volume change (ISO 188 B)	%		-0.4	
weight change	%		-0.4	

### Change after aging in Water: 70h/100°C

#### Typ. values

		Base value	After aging	difference
Hardness (ISO 1817, Shore A)	Shore	72	71	-1
Tensile strength (ISO 1817)	MPa	17	16.3	-4 %
Elongation at break (ISO 1817)	%	210	195.3	-7 %
volume change (ISO 1817)	%		1.3	
weight change	%		1	

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**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.

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