

Technical data sheet in accordance with ASTM

Material

EPDM EP703902

black

cross linking: sulfur

revision index

2

revision date

1/19/2023

page

1 / 4

Physical properties

	nominal range	typical values	
Density ASTM D 2781 A	1.13 ±0.03	1.12	g/cm ³
Hardness ASTM D 2240, Shore A	70 ±5	68	Shore
Tensile strength ASTM D 412	---	13	MPa
Elongation at break ASTM D 412	---	510	%
Tear strength ISO 34-1 C	---	75	KN/m
Tear strength ISO 34-1 B	---	30	KN/m
Low temperature test ASTM D 1329, TR10	---	-35	°C
Low-temperature resistance ASTM D 2137, Brittleness	---	-50	
Compression set ASTM D 395, Slab B, 22 h, 100 °C	---	18	%
Compression set ASTM D 395, Slab B, 70 h, 100 °C	---	40	%
Compression set ASTM D 395, Slab B, 22 h, 70 °C	---	13	%
Compression set ASTM D 395, Slab B, 70 h, 70 °C	---	18	%
Ozone Resistance ISO 1431-1, 40 °C, 70 h, 200 pphm, pass	---	0	Rating
Temperature range	-50°C to 110°C short term: 125°C		

Declarations of conformity

This overview is purely informative and does not constitute a declaration of conformity (DoC). Please refer to the

Freudenberg

Freudenberg Industrial Services GmbH
 Global Material Technology
 Nadja Güldner

Telefon: -
 Fax: -
 Email: FIS.Compound.CRC@fst.com



Technical data sheet in accordance with ASTM

Material

EPDM EP703902

black

cross linking: sulfur

revision index

2

revision date

1/19/2023

page 2 / 4

actual declaration of conformity (DoC) including the conditions and its validity period.

	Country	Part	Remark	Expires
ADI Free			see certificate	see DoC
Info ROHS and ELV			EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

Change after aging in Air: 70h/70°C

Hardness (ISO 188, Shore A)
Tensile strength (ISO 188)
Elongation at break (ISO 188)
volume change (ISO 188)
weight change

Shore
MPa
%
%
%

Typ. values			
Base value	After aging	difference	
68	70	2	
13	13	0 %	
510	469.2	-8 %	
	0.2		
	-0.5		

Change after aging in Air: 70h/100°C

Hardness (ISO 188, Shore A)
Tensile strength (ISO 188)
Elongation at break (ISO 188)
volume change (ISO 188)
weight change

Shore
MPa
%
%
%

Typ. values			
Base value	After aging	difference	
68	73	5	
13	11.8	-9 %	
510	413.1	-19 %	
	-1		
	-1		

Change after aging in Air: 70h/110°C

Hardness (ISO 188, Shore A)
Tensile strength (ISO 188)
Elongation at break (ISO 188)

Shore
MPa
%

Typ. values			
Base value	After aging	difference	
68	75	7	
13	10.7	-18 %	
510	357	-30 %	

Change after aging in Air: 70h/125°C

Hardness (ISO 188, Shore A)
Tensile strength (ISO 188)
Elongation at break (ISO 188)

Shore
MPa
%

Typ. values			
Base value	After aging	difference	
68	77	9	
13	11.1	-15 %	
510	331.5	-35 %	

Freudenberg

Freudenberg Industrial Services GmbH
Global Material Technology
Nadja Güldner

Telefon: -
Fax: -
Email: FIS.Compound.CRC@fst.com



Technical data sheet in accordance with ASTM

Material

EPDM EP703902

black

cross linking: sulfur

revision index

2

revision date

1/19/2023

page 3 / 4

Change after aging in Glykol/Wasser 50 : 50: 70h/110°C

Hardness (ISO 188, Shore A)
Tensile strength (ISO 188)
Elongation at break (ISO 188)
volume change (ISO 188)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
68	66	-2	
13	13.3	2 %	
510	433.5	-15 %	
	2		

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

Hardness (ISO 1817, Shore A)
Tensile strength (ISO 1817)
Elongation at break (ISO 1817)
volume change (ISO 1817)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
68	67	-1	
13	11.3	-13 %	
510	423.3	-17 %	
	2		

Freudenberg

Freudenberg Industrial Services GmbH
Global Material Technology
Nadja Güldner

Telefon: -
Fax: -
Email: FIS.Compound.CRC@fst.com



Technical data sheet in accordance with ASTM

Material

EPDM EP703902

black

cross linking: sulfur

revision index

2

revision date

1/19/2023

page

4 / 4

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 Industrial Services GmbH
Global Material Technology
Nadja Güldner

Telefon: -
Fax: -
Email: FIS.Compound.CRC@fst.com

