

Technical data sheet in accordance with ASTM

Material

FKM FP609404

green

cross linking: bisphenolically

revision index	revision date			page
2	10/20/2021			1 / 4
Physical properties	nominal range	typical values		
Density ASTM D 1817, 23 °C	2.03 ±0.03	2.03	g/cm ³	
Hardness DIN 53505, Shore A, 23 °C	60 ±5	63	Shore	
Tensile strength DIN 53504-S2	---	11.5	MPa	
Elongation at break DIN 53504-S2	---	250	%	
Tear strength ISO 34-1A, 23 °C	---	4.6	KN/m	
Tear strength ISO 34-1B, 23 °C	---	5.6	KN/m	
Low-temperature resistance ASTM D 2137-A	---	-25		
Compression set ASTM D395 B, 22 h, 200 °C	---	15	%	
Compression set ASTM D 395 B, 70 h, 200 °C	---	24	%	
Compression set ISO 815 B, 22 h, 150 °C	---	30	%	
Compression set ISO 815/B, 24 h, 150 °C	---	13	%	
Compression set ISO 815 B, 1000 h, 150 °C	---	65	%	
Low Temperature VDA 675 116, DSC	---	-16	°C	
Low temperature test ASTM D1329, TR10	---	-17	°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

FKM FP609404

green

cross linking: bisphenolically

revision index

2

revision date

10/20/2021

page 2 / 4

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

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

Change after aging in Air: 168h/150°C

Typ. values

		Base value	After aging	difference
Hardness (ASTM D573, Shore A)	Shore	63	64	1
Tensile strength (ASTM D573)	MPa	11.5	10.9	-5 %
Elongation at break (ASTM D573)	%	250	230	-8 %

Change after aging in Air: 1008h/150°C

Typ. values

		Base value	After aging	difference
Hardness (ASTM D573, Shore A)	Shore	63	65	2
Tensile strength (ASTM D573)	MPa	11.5	9.5	-17 %
Elongation at break (ASTM D573)	%	250	200	-20 %
volume change (ASTM D573)	%		-1.7	

Change after aging in Air: 168h/200°C

Typ. values

		Base value	After aging	difference
Hardness (ISO 188, Shore A)	Shore	63	66	3
Tensile strength (ISO 188)	MPa	11.5	11.7	2 %
Elongation at break (ISO 188)	%	250	191	-24 %

Change after aging in Air: 1000h/200°C

Typ. values

		Base value	After aging	difference
Hardness (ISO 188, Shore A)	Shore	63	69.5	7
Tensile strength (ISO 188)	MPa	11.5	13.3	16 %
Elongation at break (ISO 188)	%	250	183	-27 %

Change after aging in Air: 94h/230°C

Typ. values

		Base value	After aging	difference
Hardness (DIN 53508, Shore A)	Shore	63	66	3
Tensile strength (DIN 53508)	MPa	11.5	12	4 %
Elongation at break (DIN 53508)	%	250	187	-25 %

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

FKM FP609404

green

cross linking: bisphenolically

revision index

2

revision date

10/20/2021

page 3 / 4

Change after aging in ASTM service fluid # 101: 70h/175°C

Hardness (ASTM D471, Shore A)	Shore
Tensile strength (ASTM D471)	MPa
Elongation at break (ASTM D471)	%
volume change (ASTM D471)	%

Typ. values			
Base value	After aging	difference	
63	55	-8	
11.5	9.2	-20 %	
250	287.5	15 %	
	11.5		

Change after aging in ASTM-Oil No. 3: 70h/175°C

Hardness (ASTM D471, Shore A)	Shore
Tensile strength (ASTM D471)	MPa
Elongation at break (ASTM D471)	%
volume change (ASTM D471)	%

Typ. values			
Base value	After aging	difference	
63	61	-2	
11.5	9.8	-15 %	
250	225	-10 %	
	2.5		

Change after aging in FAM A: 72h/23°C

Hardness (DIN 53521, Shore A)	Shore
volume change (DIN 53521)	%

Typ. values			
Base value	After aging	difference	
63	57	-6	
	7.8		

Change after aging in FAM B: 72h/23°C

Hardness (DIN 53521, Shore A)	Shore
volume change (DIN 53521)	%

Typ. values			
Base value	After aging	difference	
63	47.5	-16	
	27.8		

Change after aging in Fuel C: 70h/23°C

Hardness (ASTM D471, Shore A)	Shore
Tensile strength (ASTM D471)	MPa
Elongation at break (ASTM D471)	%
volume change (ASTM D471)	%

Typ. values			
Base value	After aging	difference	
63	60.5	-3	
11.5	9.2	-20 %	
250	295	18 %	
	3.5		

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

FKM FP609404

green

cross linking: bisphenolically

revision index

2

revision date

10/20/2021

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