

Technical data sheet in accordance with ASTM

Material

FKM FP801801

black

cross linking: bisphenolically

revision index	revision date	page	1 / 3
4	5/23/2022		

Physical properties	nominal range	typical values	
Density CNS 5341-96	1.87 ±0.03	1.87	g/cm ³
Hardness ASTM D2240-15, Shore A	80 ±5	84	Shore
Tensile strength ASTM D412-16	---	14.2	MPa
Elongation at break ASTM D412-16	---	184	%
Modulus 100 %, ASTM D412-16	---	8.7	MPa
Low temperature test ASTM D1329, TR10	---	-16.1	°C
Compression set ASTM D395-18, Slab B, 22 h, 200 °C	---	13	%
Temperature range	-20°C to 200°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
ADI Free			see certificate	see DoC
DVGW Baumusterprüfzertifikat Gas	D		DIN EN 549 H3 E1	01 / 2027
DVGW type examination certificate- Gas	D		DIN EN 549 H3 E1	01 / 2027
RoHS conform			including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

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 FP801801

black

cross linking: bisphenolically

revision index

4

revision date

5/23/2022

page 2 / 3

Change after aging in Air: 70h/250°C

Hardness (ASTM D573-04, Shore A)
Tensile strength (ASTM D573-04)
Elongation at break (ASTM D573-04)
weight change

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
82	84	2	
14	13.3	-5 %	
169	133.5	-21 %	
	-1.6		

Change after aging in ASTM service fluid # 101: 70h/200°C

Hardness (ASTM D471-16a, Shore A)
Tensile strength (ASTM D471-16a)
Elongation at break (ASTM D471-16a)
volume change (ASTM D471-16a)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
82	74	-8	
14	11.9	-15 %	
169	160.5	-5 %	
	8.4		

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

Hardness (ASTM D471-16a, Shore A)
Tensile strength (ASTM D471-16a)
Elongation at break (ASTM D471-16a)
volume change (ASTM D471-16a)

Shore
MPa
%
%

Typ. values			
Base value	After aging	difference	
82	79	-3	
14	12.5	-11 %	
169	155.4	-8 %	
	2.5		

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 FP801801

black

cross linking: bisphenolically

revision index

4

revision date

5/23/2022

page 3 / 3

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

