

Material

75 FKM 585

black-brown

cross linking: bisphenolically

revision index
13

revision date
7/12/2022

page 1 / 3

Physical properties

	nominal range	typical values	
Density DIN EN ISO 1183-1	2.05 ±0.03	2.05	g/cm³
Hardness DIN ISO 7619-1	75 ±5	75	Shore
Rebound resilience DIN 53512	---	6	%
Modulus 100 %, DIN 53504, S2	> 4	6.9	MPa
Tensile strength DIN 53504, S2	> 10	12.8	MPa
Elongation at break DIN 53504, S2	> 175	225	%
Compression set DIN ISO 815, 22 h, 175 °C	---	28	%
Low Temperature DIN 53765, DSC	---	-14	°C
Temperature range	-30°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
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

Freudenberg

Freudenberg FST GmbH
Technology&Innovation
Material Compliance

Telefon: -
Fax: -
Email: MaterialCompliance@fst.com



Material

75 FKM 585

black-brown

cross linking: bisphenolically

revision index

13

revision date

7/12/2022

page

2 / 3

Tested after ASTM D 2000: M 2 HK 710 A1-10 B37 B38 EF31 EO78 Z1

		nominal range	typical values
Hardness	Shore	70 ±5	74
Tensile strength	MPa	min. 10	12.5
Elongation at break	%	min. 175	240
A1-10 Change after aging in Air 70h/250°C			
Hardness	Shore A	10	1
Tensile strength	%	-25	2
Elongation at break	%	-25	18
B37 Compression set 22h/175°C	%	50	29
B38 Compression set 22h/200°C	%	50	40
EF31 Change after aging in Fuel C 70h/23°C			
Hardness	Shore	±5	-1
Tensile strength	%	-25	-10
Elongation at break	%	-20	40
Volume	%	0 to 10	2
EO78 Change after aging in Fluid No. 101 70h/200°C			
Hardness	Shore	-15 to 5	-4
Tensile strength	%	-40	-10
Elongation at break	%	-20	35
Volume	%	0 to 15	7
Z1 Low Temperature DIN 53765, DSC	°C	---	-14

Freudenberg

Freudenberg FST GmbH
Technology&Innovation
Material Compliance

Telefon: -
Fax: -
Email: MaterialCompliance@fst.com



Material

75 FKM 585

black-brown

cross linking: bisphenolically

revision index

13

revision date

7/12/2022

page 3 / 3

The given values are based on a limited number of tests on standard test pieces (2mm sheets) produced in the laboratory. The data from finished parts can deviate from above values depending on the manufactories 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 provisons do not plan for something else.

Freudenberg

Freudenberg FST GmbH
Technology&Innovation
Material Compliance

Telefon: -
Fax: -
Email: MaterialCompliance@fst.com

