

Material

70 FKM 576

black

cross linking: bisphenolically

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Physical properties	nominal range	typical values	
Density DIN EN ISO 1183-1	1.84 ±0.03	1.84	g/cm ³
Hardness DIN ISO 7619-1	70 ±5	73	Shore
Micro hardness DIN ISO 48 Verfahren M	70 +5/-8	69	IRHD
Rebound resilience DIN 53512	> 3	6	%
Modulus 100 %, DIN 53504, S2	> 4	5.6	MPa
Tensile strength DIN 53504, S2	> 10	12.1	MPa
Elongation at break DIN 53504, S2	> 150	218	%
Compression set DIN ISO 815, 22 h, 175 °C	< 25	15	%
Low Temperature DIN 53765, DSC	---	-16	°C
Flammability UL 94	---	V0	
Temperature range	static: -40°C to 200°C dynamic: -15°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 DVGW Baumusterprüfzertifikat Gas	D	Diaphragm	see certificate DIN EN 549 H3 E1	see DoC 03 / 2028

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	Country	Part	Remark	Expires
DVGW Baumusterprüfzertifikat Gas Info ROHS and ELV	D	diaphragm, fabric enforced	DIN EN 549 H3 E1 EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	03 / 2028 see DoC

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Tested after ASTM D 2000: M 2 HK 710 A1-10 B37 B38 EF31 EO78 F15

		nominal range	typical values
Hardness	Shore	70 ±5	73
Tensile strength	MPa	min. 10	11.5
Elongation at break	%	min. 175	220
A1-10 Change after aging in Air 70h/250°C			
Hardness	Shore A	10	2
Tensile strength	%	-25	12
Elongation at break	%	-25	-18
B37 Compression set 22h/175°C	%	50	10
B38 Compression set 22h/200°C	%	50	18
EF31 Change after aging in Fuel C 70h/23°C			
Hardness	Shore	±5	-2
Tensile strength	%	-25	-18
Elongation at break	%	-20	-10
Volume	%	0 to 10	3
EO78 Change after aging in Fluid No. 101 70h/200°C			
Hardness	Shore	-15 to 5	-7
Tensile strength	%	-40	-15
Elongation at break	%	-20	-12
Volume	%	0 to 15	12
F15 Low-temperature resistance after 3 min at -25 °C 3min./-25°C			pass

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.

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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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