

Material

VENTOGUARD 453

black

cross linking: sulfur

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Physical properties

	nominal range	typical values	
Density DIN EN ISO 1183-1, 23 °C	1.22 ±0.02	1.23	g/cm ³
Hardness DIN ISO 7619-1, Shore A, 23 °C	75 ±5	78	Shore
Modulus 100 %, DIN 53504, S2, 23 °C	> 5	7.1	MPa
Tensile strength DIN 53504, S2, 23 °C	> 12	16.3	MPa
Elongation at break DIN 53504, S2, 23 °C	> 180	236	%
Compression set DIN ISO 815, Slab B, 24 h, 70 °C, 25 %	< 20	15	%
Compression set DIN ISO 815, Slab B, 24 h, 100 °C, 25 %	< 30	23	%
Ozone Resistance DIN 53509, 40 °C, 72 h, 50 pphm, 20 % Dehnung	---	0	Rating
Abrasion 10, DIN 53516	---	72	mm ³
Low temperature test DIN ISO 2921, TR10	---	-43	°C
Low Temperature ISO 11357-2, DSC	---	-49	°C
Temperature range	static: -55°C to 80°C dynamic: -45°C to 80°C		

Declarations of conformity

No data found!

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Freudenberg FST GmbH

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Change after aging

**in Fuchs Lubritech Gleitmo 585 K:
168h/100°C**

Hardness (DIN ISO 7619-1, Shore A, 23 °C)
Modulus (100 %, DIN 53504, S2, 23 °C)
Tensile strength (DIN 53504, S2, 23 °C)
Elongation at break (DIN 53504, S2, 23 °C)
volume change (DIN 53521)

Shore	73	74	1
MPa	5.9	7.4	25 %
MPa	14.5	15.7	8 %
%	222	188	-15 %
%		0.2	

Typ. values

Base value After aging difference

Change after aging

in Klüberplex BEM 41-141: 168h/100°C

Hardness (DIN ISO 7619-1, Shore A, 23 °C)
Modulus (100 %, DIN 53504, S2, 23 °C)
Tensile strength (DIN 53504, S2, 23 °C)
Elongation at break (DIN 53504, S2, 23 °C)
volume change (DIN 53521)

Shore	73	72	-1
MPa	5.9	6.8	15 %
MPa	14.5	15.8	9 %
%	222	199	-10 %
%		0.9	

Typ. values

Base value After aging difference

Change after aging

in Mobilith 460 WT: 168h/100°C

Hardness (DIN ISO 7619-1, Shore A, 23 °C)
Modulus (100 %, DIN 53504, S2, 23 °C)
Tensile strength (DIN 53504, S2, 23 °C)
Elongation at break (DIN 53504, S2, 23 °C)
volume change (DIN 53521)

Shore	73	76	3
MPa	5.9	8	36 %
MPa	14.5	16.5	14 %
%	222	192	-14 %
%		-1.3	

Typ. values

Base value After aging difference

Change after aging

in PEG 46-1200: 168h/70°C

Hardness (DIN 53505, Shore A)
Tensile strength (DIN 53504)
Elongation at break (DIN 53504)
volume change (DIN ISO 1817)

Shore	73	68	-5
MPa	16.4	16.9	3 %
%	257	268	4 %
%		-5.3	

Typ. values

Base value After aging difference

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Change after aging

in Shell Gadus S2 OGH: 168h/70°C

Hardness (DIN 53505, Shore A)

Tensile strength (DIN 53504)

Elongation at break (DIN 53504)

volume change (DIN ISO 1817)

Shore

MPa

%

%

Typ. values

Base value	After aging	difference
73	67	-6
16.4	16.8	2 %
257	255	-1 %
	7.3	

Change after aging

in Shell Rhodina Grease BBZ: 168h/70°C

Hardness (DIN ISO 7619-1, Shore A, 23 °C)

Modulus (100 %, DIN 53504, S2, 23 °C)

Tensile strength (DIN 53504, S2, 23 °C)

Elongation at break (DIN 53504, S2, 23 °C)

volume change (DIN ISO 1817)

Shore

MPa

MPa

%

%

Typ. values

Base value	After aging	difference
73	64	
5.9	5.7	
14.5	14.3	
222	212	
	13.2	

Change after aging

in Shell Rhodina Grease BBZ: 168h/100°C

Hardness (DIN ISO 7619-1, Shore A, 23 °C)

Modulus (100 %, DIN 53504, S2, 23 °C)

Tensile strength (DIN 53504, S2, 23 °C)

Elongation at break (DIN 53504, S2, 23 °C)

volume change (DIN 53521)

Shore

MPa

MPa

%

%

Typ. values

Base value	After aging	difference
72	66	-6
6.3	7.3	16 %
16.3	12.8	-21 %
225	160	-29 %
	17.7	

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No ASTM D2000 properties available

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 provisions do not plan for something else.

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