

Material

FKM FP759425

black

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Physical properties

	nominal range	typical values	
Density ISO 2781	2.10 ±0.03	2.10	g/cm ³
Hardness ISO 7619-1, Shore A	75 ±5	78	Shore
Modulus 100 %, DIN 53504, S2	---	5.8	MPa
Tensile strength DIN 53504, S2	---	19	MPa
Elongation at break DIN 53504, S2	---	289	%
Tear strength DIN ISO 34-1	---	7	KN/m
Compression set DIN ISO 815-1, Slab B, 24 h, 100 °C, 40 %	---	28	%
Low Temperature ISO 11357-2, DSC	---	-18.2	°C
Temperature range	static: -30°C to 210°C dynamic: -15°C to 200°C	short term: 230°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
(EG) 1935/2004	EU		food	see DoC
BFR XXI, Kat 4	DE		food	see DoC
FDA	USA	Seals	\$ 177.2600	see DoC
Info ROHS and ELV			EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

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Change after aging in Air: 168h/150°C

Hardness (ISO 188, Shore A)
Tensile strength (ISO 188)
Elongation at break (ISO 188)

Shore
MPa
%

Typ. values			
Base value	After aging	difference	
78	82	4	
19	18.1	-5 %	
289	281	-3 %	

Change after aging in Air: 72h/200°C

Hardness (ISO 188, Shore A)
Tensile strength (ISO 188)
Elongation at break (ISO 188)

Shore
MPa
%

Typ. values			
Base value	After aging	difference	
78	81	3	
19	17.5	-8 %	
289	274	-5 %	

Change after aging in Air: 72h/225°C

Hardness (ISO 188, Shore A)
Tensile strength (ISO 188)
Elongation at break (ISO 188)

Shore
MPa
%

Typ. values			
Base value	After aging	difference	
78	78	0	
19	18.1	-5 %	
289	262	-9 %	

Change after aging in Air: 72h/250°C

Hardness (ISO 188, Shore A)
Tensile strength (ISO 188)
Elongation at break (ISO 188)

Shore
MPa
%

Typ. values			
Base value	After aging	difference	
78	78	0	
19	10.4	-45 %	
289	268.8	-7 %	

Change after aging in Steam: 72h/140°C

Hardness (ISO 1817, Shore A)
Tensile strength (ISO 1817)
Elongation at break (ISO 1817)
volume change (ISO 1817)
weight change

Shore
MPa
%
%
%

Typ. values			
Base value	After aging	difference	
78	65	-13	
19	15.8	-17 %	
289	311	8 %	
	6.5		
	3.4		

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Change after aging in Water: 72h/140°C

Typ. values

Hardness (ISO 1817, Shore A)
Tensile strength (ISO 1817)
Elongation at break (ISO 1817)
volume change (ISO 1817)
weight change

Shore
MPa
%
%
%

Base value	After aging	difference
78	58	-20
19	14.9	-22 %
289	209	-28 %
	8.3	
	4.3	

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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). 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.

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