FREUDENBERG
SEALING TECHNOLOGIES

Technical data sheet in accordance with ASTM

Material
75 FKM V7512Z

black

cross linking: bisphenolically

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Physical properties	nominal range	typical values	
Density ASTM D 1817	---	2.18	g/cm³
Hardness ASTM D 2240, Shore A	75 ±5	75	Shore
Tensile strength ASTM D 412	> 10	12.1	MPa
Elongation at break ASTM D 412	> 175	249.3	%
Compression set ASTM D 395, Slab B, 22 h, 200 °C	< 50	14.2	%
Modulus 100 %, ASTM D412	---	5.43	MPa
Modulus 200 %, ASTM D412	---	9.85	MPa
Tear strength DIN 53507, A, 23 °C, Procedure A	---	42.27	KN/m
Temperature range	-20°C to 250°C		

Declarations of conformity
No data found!

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Tested after ASTM D 2000: M 4 HK 710 A1-11 B38 EF31 EO78 Z1 Z2 Z3 Z4 Z6 Z8 Z9

			nominal range	typical values
	Tensile strength	MPa	min. 10	12.1
	Elongation at break	%	min. 175	249.3
A1-11	**Change after aging in Air 70h/275°C**			
	Hardness	Shore A	10	3
	Tensile strength	%	-40	-21.6
	Elongation at break	%	-20	-10.8
B38	**Compression set 22h/200°C**	%	50	14.2
EF31	**Change after aging in Fuel C 70h/23°C**			
	Hardness	Shore	±5	-2
	Tensile strength	MPa	-25	-20.4
	Elongation at break	%	-20	8.7
	Volume	%	0 to 10	1.1
EO78	**Change after aging in Fluid No. 101 70h/200°C**			
	Hardness	Shore	-15 to 5	-11.7
	Tensile strength	MPa	-40	-22.3
	Elongation at break	%	-20	19.6
	Volume	%	0 to 15	12.5
Z1	**Modulus 100 %, ASTM D412**	MPa	---	5.42
Z2	**Modulus 200 %, ASTM D412**	MPa	---	9.85
Z3	**Specific Gravity ASTM D792**	g/cc	---	2.178
Z4	**Change after aging in Air 70h/250°C**			

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	Hardness	Shore	±10	1
	Tensile strength	%	-25	6.5
	Elongation at break	%	-25	-17.3
	volume change	%	---	-2.4
Z6	**Change after aging in IRM 901 70h/150°C**			
	Hardness	Shore	±5	-0.5
	Tensile strength	%	-20	-12.9
	Elongation at break	%	-20	7.5
	volume change	%	5	0.6
Z8	**Change after aging in IRM 903 70h/150°C**			
	Hardness	Shore	-10 to 5	-0.8
	Tensile strength	%	-30	-19.7
	Elongation at break	%	-20	7.8
	volume change	%	10	1.6
Z9	**Tear strength ASTM D624**	KN/m	---	42.27

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 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.

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