FREUDENBERG
SEALING TECHNOLOGIES

Technical data sheet in accordance with ASTM

Material
75 FKM V750ZBR

brown

cross linking: bisphenolically

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Physical properties		nominal range	typical values	
Density ASTM D297, 23 °C		---	1.99	g/cm³
Hardness ASTM D2240, Shore A, 23 °C		75 ±5	74	Shore
Modulus 100 %, ASTM D412, C, 23 °C		---	5.43	MPa
Modulus 200 %, ASTM D412, C, 23 °C		---	11.82	MPa
Tensile strength ASTM D412, C, 23 °C		> 10	13.7	MPa
Elongation at break ASTM D412, C, 23 °C		> 175	237.2	%
Compression set ASTM D395, Slab B, 22 h, 200 °C, 25 %		< 50	18.4	%
Temperature range	-20°C to 200°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 Z5 Z6 Z7 Z8 Z9

			nominal range	typical values
	Tensile strength	MPa	min. 10	13.7
	Elongation at break	%	min. 175	237.2
A1-11	**Change after aging in Air 70h/275°C**			
	Hardness	Shore A	10	5
	Tensile strength	%	-40	-17.6
	Elongation at break	%	-20	-14.8
B38	**Compression set 22h/200°C**	%	50	18.4
EF31	**Change after aging in Fuel C 70h/23°C**			
	Hardness	Shore	±5	-1
	Tensile strength	MPa	-25	-12.4
	Elongation at break	%	-20	5.9
	Volume	%	0 to 10	1.1
EO78	**Change after aging in Fluid No. 101 70h/200°C**			
	Hardness	Shore	-15 to 5	-10
	Tensile strength	MPa	-40	-29.4
	Elongation at break	%	-20	3.1
	Volume	%	0 to 15	12.6
Z1	**Modulus 100 %, ASTM D412**	MPa	---	5.43
Z2	**Modulus 200 %, ASTM D412**	MPa	---	11.82
Z3	**Change after aging in Air 70h/250°C**			
	Hardness	Shore	10	2
	Tensile strength	%	-25	4.6

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	Elongation at break	%	-25	-10.5
	Volume	%	---	-1.8
Z5	**Change after aging in IRM 901 70h/150°C**			
	Hardness	Shore	±5	1
	Tensile strength	%	-20	-2.3
	Elongation at break	%	-20	2.9
	volume change	%	max. 5	-0.8
Z6	**Change after aging in IRM 903 70h/150°C**			
	Hardness	point max	±15	-1
	Tensile strength	%	-30	-13.4
	Elongation at break	%	-20	-3
	volume change	%	±10	2.3
Z7	**Change after aging in Air 70h/275°C**			
	Volume	%	---	-3.9
Z8	**Tear strength ASTM D624**	KN/m	---	47.2
Z9	**Hardness ASTM D2240, Shore A, 23 °C**	Shore	75 ±5	74

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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