Technical data sheet in accordance with ASTM

Material
70 NBR N7013Z

black

cross linking: sulfur

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Physical properties	nominal range	typical values	
Density ASTM D 1817	---	1.25	g/cm³
Hardness ASTM D 2240, Shore A	70 ±5	73.5	Shore
Tensile strength ASTM D 412	> 14	16.11	MPa
Elongation at Break ASTM D 412	> 250	272	%
Modulus 100 %, ASTM D412	---	5.87	MPa
Modulus 200 %, ASTM D412	---	12.67	MPa
Tear strength ASTM D624, C	---	47.07	KN/m
Low temperature test ASTM D 1329, TR10	---	-30	°C
Compression set ASTM D 395, B, 22 h, 100 °C	< 25	9	%

Declarations of conformity
No data found!

Freudenberg

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Tested after ASTM D 2000: M 2 BG 714 B14 EA14 EF11 EF21 EO14 EO34 Z1 Z2 Z3 Z4 Z5 Z6

			nominal range	typical values
	Hardness	Shore	70 ±5	73.5
	Tensile strength	MPa	min. 14	16.1
	Elongation at break	%	min. 250	272
B14	**Compression set 22h/100°C**	%	25	9
EA14	**Change after aging in Distilled water 70h/100°C**			
	Hardness	Shore A	±10	-3.2
	Volume	%	±15	4.9
EF11	**Change after aging in Fuel A 70h/23°C**			
	Hardness	Shore A	±10	-2.5
	Tensile strength	%	-25	-9
	Elongation at break	%	-25	-9
	Volume	%	-5 to 10	1.1
EF21	**Change after aging in Fuel B 70h/23°C**			
	Hardness	Shore A	0 to -30	-12.2
	Tensile strength	%	-60	-33
	Elongation at break	%	-60	-31
	Volume	%	0 to 40	19.1
EO14	**Change after aging in IRM 901 70h/100°C**			
	Hardness	Shore A	-5 to 10	9
	Tensile strength	%	-25	11
	Elongation at break	%	-45	-12
	Volume	%	-10 to 5	-9.6
EO34	**Change after aging in IRM 903 70h/100°C**			

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	Hardness	Shore A	-10 to 5	1.9
	Tensile strength	%	-45	11
	Elongation at break	%	-45	-7
	Volume	%	0 to 25	0.5
Z1	**Tear strength ASTM D624**	KN/m	---	47.07
Z2	**Modulus 100 %, ASTM D412**	MPa	---	5.87
Z3	**Modulus 200 %, ASTM D412**	MPa	---	12.67
Z4	**Specific Gravity**	g/cc	---	1.252
Z5	**Change after aging in Air 70h/100°C**			
	Hardness	Shore	±15	2.1
	Tensile strength	%	±30	8
	Elongation at break	%	-50	-7
	volume change	%	---	-1.2
Z6	**Change after aging in Distilled water 70h/100°C**			
	Tensile strength	%	---	5
	Elongation at break	%	---	-3

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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