

Technical data sheet in accordance with ASTM

Material

60 NBR N612O

black

cross linking: sulfur
OZONE RESISTANT

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1

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9/24/2021

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Physical properties

	nominal range	typical values	
Density ASTM D 1817	---	1.24	g/cm ³
Hardness ASTM D 2240, Shore A	60 ±5	60	Shore
Tensile strength ASTM D 412	> 10	12.4	MPa
Elongation at break ASTM D 412	> 300	446	%
Compression set ASTM D 395, Slab B, 22 h, 100 °C	< 25	6	%

Temperature range -40°C to 100°C

Declarations of conformity
No data found!

Freudenberg

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Tested after ASTM D 2000: M 2 BG 610 B14 EA14 EF11 EF21 EO14 EO34 Z1 Z2

		nominal range	typical values
Hardness	Shore	60 ±5	60
Tensile strength	MPa	min. 10	12.4
Elongation at break	%	min. 300	446
A14 Change after aging in Air 70h/100°C			
Hardness	Shore A	---	9
Tensile strength	%	---	15
Elongation at break	%	---	-16
B14 Compression set 22h/100°C			
	%	25	6
EA14 Change after aging in Distilled water 70h/100°C			
Hardness	Shore A	±10	0
Volume	%	±15	4
EF11 Change after aging in Fuel A 70h/23°C			
Hardness	Shore A	±10	0
Tensile strength	%	-25	-6
Elongation at break	%	-25	-5
Volume	%	-5 to 10	-1
EF21 Change after aging in Fuel B 70h/23°C			
Hardness	Shore A	0 to -30	-9
Tensile strength	%	-60	-42
Elongation at break	%	-60	-38
Volume	%	0 to 40	21
EO14 Change after aging in IRM 901 70h/100°C			
Hardness	Shore A	-5 to 10	5

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1	9/24/2021				
		Tensile strength	%	-25	12
		Elongation at break	%	-45	-13
		Volume	%	-10 to 5	-9
EO34 Change after aging in IRM 903 70h/100°C					
		Hardness	Shore A	-10 to 5	-1
		Tensile strength	%	-45	3
		Elongation at break	%	-45	-11
		Volume	%	0 to 25	1
Z1 Change after aging in Distilled water 70h/100°C					
		Hardness Shore A	Shore	±10	0
		Tensile strength	%	---	-6
		Elongation at break	%	---	-14
		volume change	%	±15	4
Z2 Ozone Resistance 50 pphm x 20%, 40 °C, 72 h					
			Rating	no cracks	pass

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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