

Technical data sheet in accordance with ASTM

Material

NBR NB901803

black

cross linking: sulfur

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4	11/9/2022		

Physical properties	nominal range	typical values	
Density CNS 5341-96, Method A	1.37 ±0.03	1.36	g/cm ³
Hardness ASTM D2240-15, Shore A	90 ±5	86	Shore
Tensile strength ASTM D412-16	---	15.6	MPa
Elongation at break ASTM D412-16	---	175	%
Modulus 100 %, ASTM D412-16	---	10.9	MPa
Compression set ASTM D395-18, 22 h, 100 °C, button	---	6	%

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
ADI Free			see certificate	see DoC
DVGW Baumusterprüfzertifikat Gas	D		DIN EN 549 H3 B1	11 / 2026
DVGW type examination certificate gas	D		DIN EN 549 H3 B1	11 / 2026
Info ROHS and ELV			EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

Freudenberg

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Change after aging in Air: 70h/125°C

Hardness (ASTM D865-11, Shore A)
 Tensile strength (ASTM D865-11)
 Elongation at break (ASTM D865-11)
 weight change

Shore
 MPa
 %
 %

Typ. values			
Base value	After aging	difference	
86	89	3	
15.6	16.5	6 %	
175	113.7	-35 %	
	0.1		

Change after aging in IRM 901: 70h/150°C

Hardness (ASTM D471-16a, Shore A)
 Tensile strength (ASTM D471-16a)
 Elongation at break (ASTM D471-16a)
 volume change (ASTM D471-16a)

Shore
 MPa
 %
 %

Typ. values			
Base value	After aging	difference	
86	88	2	
15.6	14.5	-7 %	
175	108.5	-38 %	
	-2.8		

Change after aging in IRM 903: 70h/150°C

Hardness (ASTM D471-16a, Shore A)
 Tensile strength (ASTM D471-16a)
 Elongation at break (ASTM D471-16a)
 volume change (ASTM D471-16a)

Shore
 MPa
 %
 %

Typ. values			
Base value	After aging	difference	
86	81	-5	
15.6	12.5	-20 %	
175	115.5	-34 %	
	9.9		

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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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