



Technical data sheet in accordance with ASTM

Material NBR NB702822

black

cross linking: sulfur

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Physical properties

	required	actual	
Density ASTM D 1817, 23 °C	1.23 ±0.02	1.23	g/cm³
Hardness ASTM D 2240, Shore A, 23 °C	70 ±5	70	Shore
Tensile strength ASTM D 412, 23 °C	---	16.3	MPa
Elongation at Break ASTM D 412, 23 °C	---	355	%
Compression set ASTM D 395, B, 22 h, 100 °C, 25 %	---	8	%
Compression set ASTM D 395, B, 70 h, 100 °C, 25 %	---	12	%
Compression set ASTM D 395, B, 168 h, 100 °C, 25 %	---	17	%
Compression set DIN ISO 815, 72 h, -20 °C, 25 %	---	36	%
Low temperature test ASTM D 1329, TR10	---	-30	°C

Certificates	Country	Part	Remark	Expires	unlimited
DVGW Baumusterprüfzertifikat Gas DIN EN 549 H3 B1	D	not defined	DIN EN 549 H3 B1	06 / 2022	☐
DVGW Baumusterprüfzertifikat Gas DIN EN 549 H3 B1	D	not defined	english	06 / 2022	☐
RoHS			2015/863/EU and 2011/65/EU		☒

Change after aging in Air: 70h/100°C

Typ. values		
base	after aging	difference
70	74	4
16.3	16.5	1 %
355	318.8	-10 %

Freudenberg

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Change after aging in Air: 168h/100°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)

Shore
MPa
%

Typ. values		
base	after aging	difference
70	76	6
16.3	16.5	1 %
355	297.5	-16 %

Change after aging in Air: 504h/100°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)

Shore
MPa
%

Typ. values		
base	after aging	difference
70	81	11
16.3	16.7	2 %
355	241.8	-32 %

Change after aging in Air: 24h/120°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)

Shore
MPa
%

Typ. values		
base	after aging	difference
70	75	5
16.3	16.8	3 %
355	312	-12 %

Change after aging in Air: 70h/120°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)

Shore
MPa
%

Typ. values		
base	after aging	difference
70	78	8
16.3	16.6	2 %
355	264.1	-26 %

Change after aging in Air: 70h/125°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)

Shore
MPa
%

Typ. values		
base	after aging	difference
70	81	11
16.3	16.8	3 %
355	254.9	-28 %

Change after aging in ASTM-Oil No. 1: 70h/100°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

Typ. values		
base	after aging	difference
70	78	8
16.3	16.6	2 %
355	295	-17 %
	-9.1	

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Change after aging in ASTM-Oil No. 1: 168h/100°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

Typ. values			
base	after aging	difference	
70	78	8	
16.3	17.2	6 %	
355	285	-20 %	
	-8.6		

Change after aging in ASTM-Oil No. 1: 70h/125°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

Typ. values			
base	after aging	difference	
70	79	9	
16.3	17.2	6 %	
355	289	-19 %	
	-8.2		

Change after aging in ASTM-Oil No. 1: 70h/150°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

Typ. values			
base	after aging	difference	
70	78	8	
16.3	16.3	0 %	
355	265	-25 %	
	-7.9		

Change after aging in IRM 903: 70h/100°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

Typ. values			
base	after aging	difference	
70	67	-3	
16.3	14.3	-12 %	
355	255	-28 %	
	4.5		

Change after aging in IRM 903: 168h/100°C

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

Typ. values			
base	after aging	difference	
70	67	-3	
16.3	14.4	-12 %	
355	240	-32 %	
	12.7		

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Change after aging in IRM 903: 70h/125°C

Typ. values

base	after aging	difference
70	67	-3
16.3	13.7	-16 %
355	236	-34 %
	13.6	

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

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

Typ. values

base	after aging	difference
70	62	-8
16.3	13.4	-18 %
355	241	-32 %
	12.9	

Hardness (ASTM D2240, Shore A, 23 °C)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)
volume change (ASTM D471)

Shore
MPa
%
%

Change after aging in Water: 70h/100°C

Typ. values

base	after aging	difference
70	66	-4
	6	

Hardness (ASTM D2240, Shore A, 23 °C)
volume change (ASTM D471)

Shore
%

Temperature-range: -35 °C to 100 °C

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 provisions do not plan for something else.

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