

Technical data sheet in accordance with ASTM

# Material

## EPDM EP703902

black

cross linking: sulfur

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### Physical properties

	nominal range	typical values	
<b>Density</b> ASTM D 2781 A	1.13 ±0.03	1.12	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D 2240, Shore A	70 ±5	68	Shore
<b>Tensile strength</b> ASTM D 412	---	13	MPa
<b>Elongation at break</b> ASTM D 412	---	510	%
<b>Tear strength</b> ISO 34-1 C	---	75	KN/m
<b>Tear strength</b> ISO 34-1 B	---	30	KN/m
<b>Low temperature test</b> ASTM D 1329, TR10	---	-35	°C
<b>Low-temperature resistance</b> ASTM D 2137, Brittleness	---	-50	
<b>Compression set</b> ASTM D 395, Slab B, 22 h, 100 °C	---	18	%
<b>Compression set</b> ASTM D 395, Slab B, 70 h, 100 °C	---	40	%
<b>Compression set</b> ASTM D 395, Slab B, 22 h, 70 °C	---	13	%
<b>Compression set</b> ASTM D 395, Slab B, 70 h, 70 °C	---	18	%
<b>Ozone Resistance</b> ISO 1431-1, 40 °C, 70 h, 200 pphm, pass	---	0	Rating
<b>Temperature range</b>	-50°C to 110°C      short term: 125°C		

### Declarations of conformity

This overview is purely informative and does not constitute a declaration of conformity (DoC). Please refer to the

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actual declaration of conformity (DoC) including the conditions and its validity period.

	Country	Part	Remark	Expires
ADI Free			see certificate	see DoC
Info ROHS and ELV			EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

### Change after aging in Air: 70h/70°C

Hardness (ISO 188, Shore A)  
Tensile strength (ISO 188)  
Elongation at break (ISO 188)  
volume change (ISO 188)  
weight change

Shore  
MPa  
%  
%  
%

Typ. values			
Base value	After aging	difference	
68	70	2	
13	13	0 %	
510	469.2	-8 %	
	0.2		
	-0.5		

### Change after aging in Air: 70h/100°C

Hardness (ISO 188, Shore A)  
Tensile strength (ISO 188)  
Elongation at break (ISO 188)  
volume change (ISO 188)  
weight change

Shore  
MPa  
%  
%  
%

Typ. values			
Base value	After aging	difference	
68	73	5	
13	11.8	-9 %	
510	413.1	-19 %	
	-1		
	-1		

### Change after aging in Air: 70h/110°C

Hardness (ISO 188, Shore A)  
Tensile strength (ISO 188)  
Elongation at break (ISO 188)

Shore  
MPa  
%

Typ. values			
Base value	After aging	difference	
68	75	7	
13	10.7	-18 %	
510	357	-30 %	

### Change after aging in Air: 70h/125°C

Hardness (ISO 188, Shore A)  
Tensile strength (ISO 188)  
Elongation at break (ISO 188)

Shore  
MPa  
%

Typ. values			
Base value	After aging	difference	
68	77	9	
13	11.1	-15 %	
510	331.5	-35 %	

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### Change after aging in Glykol/Wasser 50 : 50: 70h/110°C

Hardness (ISO 188, Shore A)  
Tensile strength (ISO 188)  
Elongation at break (ISO 188)  
volume change (ISO 188)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
68	66	-2	
13	13.3	2 %	
510	433.5	-15 %	
	2		

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

Hardness (ISO 1817, Shore A)  
Tensile strength (ISO 1817)  
Elongation at break (ISO 1817)  
volume change (ISO 1817)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
68	67	-1	
13	11.3	-13 %	
510	423.3	-17 %	
	2		

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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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