

Technical data sheet in accordance with ASTM

# Material

## FKM FP801801

black

cross linking: bisphenolically

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5	1/9/2024		

Physical properties	nominal range	typical values	
<b>Density</b> CNS 5341-96	1.87 ±0.03	1.86	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D2240-15, Shore A	80 ±5	82	Shore
<b>Tensile strength</b> ASTM D412-16	> 10	14	MPa
<b>Elongation at break</b> ASTM D412-16	> 150	169	%
<b>Modulus</b> 100 %, ASTM D412-16	---	8.2	MPa
<b>Compression set</b> ASTM D395-18, Slab B, 22 h, 200 °C, plied	< 50	17	%
<b>Temperature range</b>	-20°C to 200°C		

### 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
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/250°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D573-04, Shore A)	Shore	82	84	2
Tensile strength (ASTM D573-04)	MPa	14	13.3	-5 %
Elongation at break (ASTM D573-04)	%	169	133.5	-21 %
weight change	%		-1.6	

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### Change after aging in ASTM service fluid # 101: 70h/200°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	
82	74	-8	
14	11.9	-15 %	
169	160.5	-5 %	
	8.4		

### Change after aging in Fuel C: 70h/23°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	
82	79	-3	
14	12.5	-11 %	
169	155.4	-8 %	
	2.5		

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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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