

Technical data sheet in accordance with ASTM

Material

FFKM FF809402

black

cross linking: peroxidic

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Physical properties	nominal range	typical values	
Density ASTM D 297	1.98 ±0.04	1.98	g/cm ³
Hardness ASTM D 2240, Shore A	75 ±5	75	Shore
Tensile strength ASTM D 412	---	18	MPa
Elongation at break ASTM D 412	---	145	%
Low temperature test ASTM D 1329, TR10	---	-4	°C
Compression set ASTM D 395, Slab B, 70 h, 200 °C	---	18.5	%
Temperature range	-25°C to 270°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
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/275°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D 2240, Shore A)	Shore	80	78.5	-2
Tensile strength (ASTM D 412)	MPa	18	13.5	-25 %
Elongation at break (ASTM D 412)	%	145	174	20 %

Change after aging in Fuel C: 504h/40°C

		Typ. values		
		Base value	After aging	difference
volume change (ASTM D 471)	%		8.5	

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Change after aging in Glykol/Wasser 50 : 50: 168h/150°C

Hardness (ASTM D 2240, Shore A)
volume change (ASTM D 471)

Shore
%

Typ. values		
Base value	After aging	difference
80	78	-2
	2	

Change after aging in MEK: 720h/45°C

Hardness (ASTM D 2240, Shore A)
volume change (ASTM D 471)

Shore
%

Typ. values		
Base value	After aging	difference
80	77.5	-3
	4.1	

Change after aging in Methylendiamin: 72h/100°C

Hardness (ASTM D2240, Shore A)
volume change (ASTM D471)

Shore
%

Typ. values		
Base value	After aging	difference
78	71	-7
	18	

Change after aging in Nitric acid: 72h/80°C

Hardness (ASTM D2240, Shore A)
volume change (ASTM D471)

Shore
%

Typ. values		
Base value	After aging	difference
78	74	-4
	6	

Change after aging in Salzsäure 37%: 168h/80°C

Hardness (ASTM D2240, Shore A)
volume change (ASTM D471)

Shore
%

Typ. values		
Base value	After aging	difference
78	74.5	-4
	5.5	

Change after aging in Sulphuric acid: 70h/60°C

Hardness (ASTM D2240, Shore A)
volume change (ASTM D471)

Shore
%

Typ. values		
Base value	After aging	difference
78	77	-1
	2.9	

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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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