DICHTOMATIK

FREUDENBERG
INNOVATING TOGETHER

Technical data sheet in accordance with ASTM

Material
FKM FP801804

green

cross linking: bisphenolically

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Physical properties	nominal range	typical values	
Density CNS 5341-96	2.12 ±0.03	2.11	g/cm³
Hardness ASTM D2240-15, Shore A	80 ±5	79	Shore
Tensile strength ASTM D412-16	---	16.8	MPa
Elongation at break ASTM D412-16	---	179	%
Modulus 100 %, ASTM D412-16	---	9.5	MPa
Compression set ASTM D395-18, Slab B, 22 h, 175 °C, plied	---	11	%
Compression set ASTM D395-18, Slab B, 22 h, 200 °C, plied	---	15	%
Low temperature test ASTM D1329-16, TR10	---	-16.3	°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

Freudenberg

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Global Material Technology
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ADI ANIMAL DERIVED INGREDIENT free CERTIFIED

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Change after aging in Air: 70h/250°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D573-04, Shore A)	Shore	79	80	1
Tensile strength (ASTM D573-04)	MPa	16.8	13.8	-18 %
Elongation at break (ASTM D573-04)	%	179	180.8	1 %
weight change	%		-2.5	

Change after aging in ASTM service fluid # 101: 70h/200°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471-16a, Shore A)	Shore	79	69	-10
Tensile strength (ASTM D471-16a)	MPa	16.8	12.6	-25 %
Elongation at break (ASTM D471-16a)	%	179	173.6	-3 %
volume change (ASTM D471-16a)	%		11.2	

Change after aging in Fuel C: 70h/23°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471-16a, Shore A)	Shore	79	76	-3
Tensile strength (ASTM D471-16a)	MPa	16.8	14.6	-13 %
Elongation at break (ASTM D471-16a)	%	179	164.6	-8 %
volume change (ASTM D471-16a)	%		4.6	

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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 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 provisons do not plan for something else.

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