DICHTOMATIK

FREUDENBERG
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Technical data sheet in accordance with ASTM

Material
FKM FP801818

black

cross linking: bisphenolically

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Physical properties	nominal range	typical values	
Density ASTM D 1817	2.00 ±0.03	2.00	g/cm³
Hardness ASTM D 2240, Shore A	80 ±5	78	Shore
Tensile strength ASTM D 412	---	13.2	MPa
Elongation at break ASTM D 412	---	230	%
Modulus 100 %, ASTM D 412	---	8.3	MPa
Compression set ASTM D 395, Slab B, 22 h, 175 °C, 25 %	---	10	%

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 7700 SAE oil: 70h/200°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	78	66	-12
Tensile strength (ASTM D412)	MPa	13.2	17.2	30 %
Elongation at break (ASTM D412)	%	230	251	9 %
volume change (ASTM D471)	%		15.8	

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Change after aging in Air: 70h/250°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	78	82	4
Tensile strength (ASTM D412)	MPa	13.2	12.8	-3 %
Elongation at break (ASTM D412)	%	230	244	6 %
weight change	%		-2.1	

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	78	73	-5
Tensile strength (ASTM D412)	MPa	13.2	9.9	-25 %
Elongation at break (ASTM D412)	%	230	265	15 %
volume change (ASTM D471)	%		8.1	

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	78	75	-3
Tensile strength (ASTM D412)	MPa	13.2	11.2	-15 %
Elongation at break (ASTM D412)	%	230	265	15 %
volume change (ASTM D471)	%		4.8	

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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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