



Material FKM FP759412

black

cross linking: peroxidic

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Physical properties

	required	actual	
Density ASTM D1817	2.11 ±0.03	2.11	g/cm ³
Hardness DIN 53505, Shore A	75 ±5	75	Shore
Tensile strength DIN 53504	---	23.7	MPa
Elongation at Break DIN 53504	---	240	%
Compression set ASTM D395, B, 24 h, 200 °C	---	19	%
Low temperature test ASTM D1329, TR10	---	-15	°C
Glass Transition Temperature	---	-16	°C
Low-temperature resistance ASTM D 2137, 3 min, brittleness pass	---	-20	°C

Temperature range

-30°C to 200°C

short term: 230°C

Certificates	Country	Part	Remark	Expires	unlimited
(EG) 2023/2006 (GMP)	EU		(EG) 2023/2006 (GMP)		☒
3-A Sanitary Standard Referenztest	USA		Class I		☒
ADI Free					☒
CIP/SIP-Eignung	D		see certificate		☒
CIP/SIP-Eignung	D		see certificate		☒
FDA	USA	Seals	§ 177.2600		☒
LFGB	EU		(EC) no. 1935/2004		☒
RoHS			2015/863/EU and 2011/65/EU		☒

Change after aging in Air: 70h/250°C

Typ. values

base	after aging	difference
Hardness (DIN 53505, Shore A)	75	74
Tensile strength (DIN 53504)	23.7	19.4
Elongation at break (DIN 53504)	240	252

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Change after aging in ASTM fuel C: 70h/23°C

Hardness (DIN 53505, Shore A)	Shore
Tensile strength (DIN 53504)	MPa
Elongation at break (DIN 53504)	%
volume change (ASTM D471)	%

Typ. values		
base	after aging	difference
75	72	-3
23.7	20.1	-15 %
240	216	-10 %
	4	

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

Hardness (DIN 53505, Shore A)	Shore
Tensile strength (DIN 53504)	MPa
Elongation at break (DIN 53504)	%
volume change (ASTM D471)	%

Typ. values		
base	after aging	difference
75	79	4
23.7	19	-20 %
240	201	-16 %
	12	

Change after aging in ASTM-Oil No. 3: 70h/150°C

Hardness (DIN 53505, Shore A)	Shore
volume change (ASTM D471)	%

Typ. values		
base	after aging	difference
75	74	-1
	1.8	

Change after aging in Water: 70h/200°C

Hardness (DIN 53505, Shore A)	Shore
Tensile strength (DIN 53504)	MPa
Elongation at break (DIN 53504)	%
volume change (ASTM D471)	%

Typ. values		
base	after aging	difference
75	79	4
23.7	20.1	-15 %
240	192	-20 %
	8	

Lagerung nach ASTM D 471 und ASTM D 573

Certifikates: LFGB (EC 1935/2004), FDA 21 CFR § 177.2600, 3 A Sanitary Standard Class I, WFI- und CIP-/SIP- Qualification.

Compliant with the EU-directives 2000/53/EC (ELV), 2011/65/EC (RoHS) [2002/95/EC (RoHS)] and 2006/122/EC (PFOS).

Products made of this compound are manufactured according to 2023/2006/EC (GMP).

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.

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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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