DICHTOMATIK

FREUDENBERG
INNOVATING TOGETHER

Material
FKM FP759412
black

cross linking: peroxidic

revision index	revision date		
2	11/9/2022	page	1 / 4

Physical properties	nominal range	typical values	
Density ASTM D297	2.10 ±0.03	2.09	g/cm³
Hardness ASTM D2240, Shore A	75 ±5	77	Shore
Tensile strength ASTM D412	---	22.4	MPa
Elongation at Break ASTM D412	---	245	%
Low temperature test ASTM D1329, TR10	---	-15	°C
Low Temperature ISO 11357-2, DSC	---	-16.5	°C
Low-temperature resistance ASTM D 2137, 3 min	---	-20	
Ozone Resistance ISO 1431-1 A, 23 °C, 72 h, 50 pphm	---	0	Rating
Compression set ISO 815-1 A, 24 h, 200 °C, 40 %	---	20	%
Compression set ISO 815-1 B, 22 h, 150 °C	---	33	%

Temperature range	-30°C to 210°C	short term:	230°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
(EG) 2023/2006 (GMP)	EU		(EG) 2023/2006 (GMP)	see DoC
ADI Free			see certificate	see DoC
BPA/Phthalate free			BPA/Phthalate free	see DoC
CIP/SIP-Eignung	D		see certificate	see DoC

Freudenberg

Freudenberg Industrial Services GmbH
Global Material Technology
Nadja Güldner

Telefon: -
Fax: -
Email: FIS.Compound.CRC@fst.com

ADI ANIMAL DERIVED INGREDIENT free CERTIFIED

Material
FKM FP759412
black

cross linking: peroxidic

revision index	revision date		page
2	11/9/2022		2 / 4

	Country	Part	Remark	Expires
FDA	USA	Seals	§ 177.2600	see DoC
RoHS conform			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 (DIN 53505, Shore A)	Shore	75	74	-1
Tensile strength (DIN 53504)	MPa	23.7	19.4	-18 %
Elongation at break (DIN 53504)	%	240	252	5 %

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

		Typ. values		
		Base value	After aging	difference
Hardness (DIN 53505, Shore A)	Shore	75	72	-3
Tensile strength (DIN 53504)	MPa	23.7	20.1	-15 %
Elongation at break (DIN 53504)	%	240	216	-10 %
volume change (ASTM D471)	%		4	

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

		Typ. values		
		Base value	After aging	difference
Hardness (DIN 53505, Shore A)	Shore	75	79	4
Tensile strength (DIN 53504)	MPa	23.7	19	-20 %
Elongation at break (DIN 53504)	%	240	201	-16 %
volume change (ASTM D471)	%		12	

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

		Typ. values		
		Base value	After aging	difference
Hardness (DIN 53505, Shore A)	Shore	75	74	-1
volume change (ASTM D471)	%		1.8	

Freudenberg
Freudenberg Industrial Services GmbH
Global Material Technology
Nadja Güldner

Telefon: -
Fax: -
Email: FIS.Compound.CRC@fst.com

ANIMAL DERIVED INGREDIENT free CERTIFIED

Material
FKM FP759412

black

cross linking: peroxidic

revision index	revision date		page 3 / 4
2	11/9/2022		

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

		Typ. values		
		Base value	After aging	difference
Hardness (DIN 53505, Shore A)	Shore	75	79	4
Tensile strength (DIN 53504)	MPa	23.7	20.1	-15 %
Elongation at break (DIN 53504)	%	240	192	-20 %
volume change (ASTM D471)	%		8	

Lagerung nach ASTM D 471 und ASTM D 573

Freudenberg
Freudenberg Industrial Services GmbH
Global Material Technology
Nadja Güldner

Telefon: -
Fax: -
Email: FIS.Compound.CRC@fst.com

ADI ANIMAL DERIVED INGREDIENT free CERTIFIED

Material
FKM FP759412

black

cross linking: peroxidic

revision index	revision date		
2	11/9/2022	**page**	4 / 4

No ASTM D2000 properties available

Compliant with the EU-directives 2000/53/EC (ELV).

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.

Freudenberg

Freudenberg Industrial Services GmbH
Global Material Technology
Nadja Güldner

Telefon: -
Fax: -
Email: FIS.Compound.CRC@fst.com

ADI ANIMAL DERIVED INGREDIENT free CERTIFIED