DICHTOMATIK

FREUDENBERG
INNOVATING TOGETHER

Technical data sheet in accordance with ASTM

Material
70 EPDM EP702706 E703X

black

cross linking: sulfur

revision index	revision date
1	7/3/2017

Physical properties	nominal range	typical values	
Density ASTM D 1817, 23 °C	1.12 ±0.03	1.12	g/cm³
Hardness ASTM D 2240, Shore A, 23 °C	70 ±5	70	Shore
Tensile strength ASTM D 412	---	9.7	MPa
Elongation at break ASTM D 412	---	348	%
Ozone Resistance DIN 53509, 50 °C, 72 h, 50 pphm, 50 %	---	0	Rating
Compression set DIN 53517 A, 24 h, 100 °C, 25 %	---	20	%
Compression set DIN 53517 A, 70 h, 100 °C, 25 %	---	22	%
Low temperature test ASTM D 1329, TR10	---	-43.5	°C
Low temperature test ASTM D1329, TR50	---	-27.7	°C
Low temperature test ASTM D2137, brittleness point	---	-51	°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

Freudenberg

Freudenberg Industrial Services GmbH
Global Material Technology
Nadja Güldner
Telefon: -
Fax: -
Email: FIS.Compound.CRC@fst.com

Technical data sheet in accordance with ASTM

Material
70 EPDM EP702706 E703X

black

cross linking: sulfur

revision index	revision date
1	7/3/2017

Change after aging in Air: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A, 23 °C)	Shore	70	73	3
Tensile strength (ASTM D412)	MPa	9.7	10.6	9 %
Elongation at break (ASTM D412)	%	348	240	-31 %

Change after aging in Air: 70h/125°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A, 23 °C)	Shore	70	74	4
Tensile strength (ASTM D412)	MPa	9.7	10.9	12 %
Elongation at break (ASTM D412)	%	348	261	-25 %

Change after aging in Distilled water: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A, 23 °C)	Shore	70	69.5	-1
Tensile strength (ASTM D412)	MPa	9.7	10.6	9 %
Elongation at break (ASTM D412)	%	348	348	0 %
volume change (DIN 53521)	%		0.5	

Change after aging in IRM 901: 100h/70°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A, 23 °C)	Shore	70	52	-18
volume change (DIN 53521)	%		65	%

Freudenberg

Freudenberg Industrial Services GmbH
Global Material Technology
Nadja Güldner
Telefon: -
Fax: -
Email: FIS.Compound.CRC@fst.com

Technical data sheet in accordance with ASTM

Material
70 EPDM EP702706 E703X

black

cross linking: sulfur

revision index	revision date		
1	7/3/2017	**page**	3 / 3

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.

Freudenberg

Freudenberg Industrial Services GmbH
Global Material Technology
Nadja Güldner

Telefon: -

Fax: -

Email: FIS.Compound.CRC@fst.com