



Technical data sheet in accordance with ASTM

Material VMQ SI701807

auburn

cross linking: peroxidic

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Physical properties				
Density ASTM D1817		nominal range 1.31 ±0.03	typical values 1.30	g/cm ³
Hardness ASTM D2240, Shore A		70 ±5	72	Shore
Tensile strength ASTM D412		>= 5	6.5	MPa
Elongation at Break ASTM D412		>= 150	175	%
Low temperature test ASTM D1329, TR10		---	-42.8	°C
Tear strength ASTM D 624, B		---	16.5	KN/m
Compression set ASTM D395, B, 22 h, 175 °C, 25 %		---	22	%
Low-temperature resistance ASTM D 2137, 3 min, Method A, pass		---	-55	°C
Temperature range		-55°C to 200°C		

Change after aging in Air: 70h/225°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	72	71	-1
Tensile strength (ASTM D412)	MPa	6.5	5.9	-9 %
Elongation at Break (ASTM D412)	%	175	131	-25 %

Change after aging in IRM 901: 70h/150°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	72	66	-6
Tensile strength (ASTM D412)	MPa	6.5	5.5	-16 %
Elongation at Break (ASTM D412)	%	175	156	-11 %
volume change (ASTM D471)	%		4.2	

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Change after aging in IRM 903: 70h/150°C

Typ. values

		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	72	52	-20
Tensile strength (ASTM D412)	MPa	6.5	4.9	-25 %
Elongation at Break (ASTM D412)	%	175	140	-20 %
volume change (ASTM D471)	%		34.3	

Change after aging in Water: 70h/100°C

Typ. values

		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	72	72	0
Tensile strength (ASTM D412)	MPa	6.5	5.5	-16 %
Elongation at Break (ASTM D412)	%	175	163	-7 %
volume change (ASTM D471)	%		-0.2	

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 manufacturing 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 provisions do not plan for something else.

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 **FREUDENBERG**

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Declarations of conformity

	Country	Part	Remark	Expires	unlimited
(EG) 1935/2004	EU		food		☒
(EG) 2023/2006 (GMP)	EU		(EG) 2023/2006 (GMP)		☒
BfR XV			BfR XV		☒
FDA	USA	Seals	§ 177.2600		☒
RoHS			Restricted substances in electrical and electronic equipment		☒

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Declaration of Compliance
according to FDA 21 CFR §177.2600

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We declare that the composition of material

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complies with the regulation of FDA 21 CFR §177.2600.

The extraction rates are as follows:

Food simulant	Time [h]	Temperature [°C]	Extraction rate [mg/inch ²]	Limit [mg/inch ²]
Distilled water	7	Reflux	<1	20
Distilled water	+2	Reflux	<1	1
n-hexane	7	Reflux	50	175
n-hexane	+2	Reflux	<1	4

Date of issue:

4/28/2017

The declaration of compliance is 5 years valid from the date of issue.

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