

Technical data sheet in accordance with ASTM

Material

VMQ SI701807

auburn

cross linking: peroxidic

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Physical properties	nominal range	typical values	
Density ASTM D1817	1.31 ±0.03	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	
Temperature range	-55°C to 200°C		

Declarations of conformity

	Country	Part	Remark	Expires	unlimited
(EG) 1935/2004	EU		food		<input checked="" type="checkbox"/>
(EG) 2023/2006 (GMP)	EU		(EG) 2023/2006 (GMP)		<input checked="" type="checkbox"/>
ADI Free			see certificate		<input checked="" type="checkbox"/>
BfR XV	DE		BfR XV		<input checked="" type="checkbox"/>
FDA	USA	Seals	§ 177.2600		<input checked="" type="checkbox"/>
RoHS conform			including EU 2011/65 and EU2015/863 (ROHS III)		<input checked="" type="checkbox"/>

Freudenberg

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Change after aging in Air: 70h/225°C

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)

	Base value	After aging	difference
Shore	72	71	-1
MPa	6.5	5.9	-9 %
%	175	131	-25 %

Typ. values

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

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)
volume change (ASTM D471)

	Base value	After aging	difference
Shore	72	66	-6
MPa	6.5	5.5	-16 %
%	175	156	-11 %
		4.2	

Typ. values

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

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)
volume change (ASTM D471)

	Base value	After aging	difference
Shore	72	52	-20
MPa	6.5	4.9	-25 %
%	175	140	-20 %
		34.3	

Typ. values

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

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D412)
Elongation at Break (ASTM D412)
volume change (ASTM D471)

	Base value	After aging	difference
Shore	72	72	0
MPa	6.5	5.5	-16 %
%	175	163	-7 %
		-0.2	

Typ. values

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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 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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