

Technical data sheet in accordance with ASTM

# Material

## VMQ SI701822

auburn

cross linking: peroxidic

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### Physical properties

	nominal range	typical values	
<b>Density</b> CNS 5341-96	1.32 ±0.03	1.32	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D 2240-15, Shore A	70 ±5	70	Shore
<b>Modulus</b> 100 %, ASTM D412-16	---	4.3	MPa
<b>Tensile strength</b> ASTM D 412-16	> 5	6.4	MPa
<b>Elongation at break</b> ASTM D 412-16	> 150	232	%
<b>Tear strength</b> ASTM D624, 23 °C, Procedure A	> 9	11.8	KN/m
<b>Compression set</b> ASTM D 395-18, Slab B, 22 h, 175 °C, plied	< 30	19	%
<b>Low Temperature resistance</b> ASTM D2137-11, Brittleness	---	-55	°C
<b>Temperature range</b>	-55°C to 200°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
ADI Free			see certificate	see DoC
FDA	D	OR		07 / 2028
FDA	USA	Seals	§ 177.2600	see DoC
Info ROHS and ELV			EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC
PFOA / PFOS free			see certificate	see DoC

### Freudenberg

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### Change after aging in Air: 70h/225°C

Hardness (ASTM D573-04, Shore A)  
Tensile strength (ASTM D573-04)  
Elongation at break (ASTM D573-04)  
weight change

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
70	67	-3	
6.4	5.8	-10 %	
232	164.7	-29 %	
	-0.8		

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

Hardness (ASTM D471-16a, Shore A)  
Tensile strength (ASTM D471-16a)  
Elongation at break (ASTM D471-16a)  
volume change (ASTM D471-16a)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
70	63	-7	
6.4	6.4	0 %	
232	234.3	1 %	
	4		

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

Hardness (ASTM D471-16a, Shore A)  
Tensile strength (ASTM D471-16a)  
Elongation at break (ASTM D471-16a)  
volume change (ASTM D471-16a)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
70	49	-21	
6.4	5.4	-15 %	
232	208.8	-10 %	
	36.1		

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

Hardness (ASTM D471-16a, Shore A)  
Tensile strength (ASTM D4-16a)  
Elongation at break (ASTM D471-16a)  
volume change (ASTM D471-16a)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
70	68	-2	
6.4	5.8	-9 %	
232	215.8	-7 %	
	1.5		

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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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