



Material 70 VMQ SI70A401 S707Z

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Physical properties		nominal range	typical values	
Density ASTM D297, 23 °C			1.39	g/cm³
Hardness ASTM D2240, Shore A, 23 °C		70 ±5	68	Shore
Modulus 100 %, ASTM D412, C, 23 °C				MPa
Tensile strength ASTM D412, C, 23 °C		> 5	5.8	MPa
Elongation at break ASTM D412, C, 23 °C		> 150	237	%
Compression set ASTM D395, Slab B, 22 h, 175	°C, max	< 30	16	%

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
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

Change after aging			Typ. values		
in Air: 70h/225°C		Base value	After aging	difference	
Hardness (ASTM D573-10, Shore A)	Shore	68	70	2	
Tensile strength (ASTM D573-10)	MPa	5.8	5.3	-9 %	
Elongation at break (ASTM D573-10)	%	237	187.2	-21 %	

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Change after aging			Typ. values		es
in IRM 901: 70h/150°C			Base value	After aging	difference
Hardness (ASTM D471-12a, Shore A)		Shore	68	65	-3
Tensile strength (ASTM D471-12a)		MPa	5.8	5.5	-5 %
Elongation at break (ASTM D471-12a)		%	237	222.8	-6 %
volume change (ASTM D4-)		%		10	
Change after aging				Typ. valu	es
in IRM 903: 70h/150°C			Base value	After aging	difference
Hardness (ASTM D471-12a, Shore A)		Shore	68	53	-15
volume change (ASTM D471-12a)		%		37	
Change after aging			Typ. values		
in Water: 70h/100°C			Base value	After aging	difference
Hardness (ASTM D471-12a, Shore A)		Shore	68	71	3
volume change (ASTM D471-)		%		2	

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Tested	d after ASTM D 2000: N	I 7 GE 705 A19 B37 EA1	4 EO16 EO36 F19 Z1		
				nominal range	typical values
	Hardness		Shore	70 ±5	68
	Tensile strength		MPa	min. 5	5.8
	Elongation at break		%	min. 150	237
A19	Change after aging ir	Air 70h/225°C			
	Hardness		Shore	10	2
	Tensile strength		MPa	-25	-5
	Elongation at break		%	-30	-21
B37	Compression set Met	hod B 22h/175°C	%	30	30
EA14 Change after aging in Distilled water 70h/100°C					
	Hardness		Shore	±5	3
	Volume		%	±5	2
EO16	Change after aging ir	IRM 901 70h/150°C			
	Hardness		Shore	0 to -15	-3
	Tensile strength		MPa	-20	-5
	Elongation at break		%	-20	-6
	Volume		%	0 to 15	10
EO36	Change after aging ir	IRM 903 70h/150°C			
	Hardness		Shore	-40	-15
	Volume		%	60	37
F19	Low-temperature res	stance after 3 min at -5	5 °C 3min./-55°C	pass	pass
Z 1	Specific Gravity AST	M D297	g/cc		1.39

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

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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.

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