


G-Etronax SI - Sheet

Components: Glass fabric - Silicone
Colour*:  Cream
Serial no.: 320
Version no.:

Closest relevant standards

IEC 60893: SI GC 202
DIN 7735: Hgw 2572
NEMA LJ 1: G-7

Mechanical properties	Test method	Thickness	Value	Unit	
Bending strength at RT	ISO 178	≥ 1,5 mm	135	MPa	*1
Bending strength at a high temperature	ISO 178	≥ 1,5 mm	-	MPa	-
Modulus of elasticity	ISO 178	≥ 1,5 mm	13000	MPa	*1
Compressive strength	ISO 604	≥ 5 mm	330	MPa	*1
Izod impact strength, parallel with layers	ISO 180/2A	≥ 5 mm	45	Kj/m ²	*1
Shearing strength, parallel	IEC 60893-2	≥ 5 mm	15	MPa	*1
Tensile strength	ISO 527	≥ 1,6 mm	160	MPa	*1

Electrical properties	Test method	Thickness	Value	Unit	
Electrical strength in oil at 90°C, perpendicular	IEC 60243-1	3 mm	7	kV/mm	*2
Electrical strength in oil at 90°C, parallel	IEC 60243-1	≥ 3 mm	50	kV/25mm	*2
Permittivity 50 MHz	IEC 62631-2-1	≤ 3 mm	4		*3
Permittivity 1 MHz	IEC 62631-2-1	≤ 3 mm	4		*3
Dissipation factor 50 MHz	IEC 62631-2-1	≤ 3 mm	0.003		*3
Dissipation factor 1 MHz	IEC 62631-2-1	≤ 3 mm	0.003		*3
Insulation resistance after submersion in water	IEC 62631-3-3	All	100000	MΩ	*4
Comparative tracking index	IEC 60112	≥ 3 mm	400	CTI	*1

Conditioning

- 1 24h/23°C/50%RH
- 2 24h/23°C/50%RH + 1h/ in oil at 90°C
- 3 96h/105°C + 1h/23°C/20%RH
- 4 24h/50°C/<20% RH + 24h in water at 23°C
- 5 96h/105°C + 1h/ in oil at 90°C


Notes

- A 1h/130°C / measured at 130°C
- B 1h/150°C / measured at 150°C
- C Halogen free
- D 1h/180°C / measured at 180°C
- E 1h/200°C / measured at 200°C

The above values are average values resulting from extensive tests in our laboratories. ELEKTRO-ISOLA A/S disclaims any and all liability for the performance of our materials in applications outside our control. Elektro-Isola A/S reserves the right to modify the above data without notice or further information. Furthermore, we refer to our general disclaimer.

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Physical and thermal properties	Test method	Thickness	Value	Unit	
Temperature index 20,000 h (T.I.)	IEC 60216	≥ 3 mm	220	°C	-
Fire class	≥ 3 mm	≥ 3 mm	V-0	-	-
Density	ISO 1183-A	All	1.9	g/cm ³	-
Water absorption	ISO 62-1	50x50x3 mm	12	mg	-
Smoke emission & toxicity	-	-	-	-	-
Oxygen Index (OI)	EN ISO 4589-2	-	-	-	-
Smoke density (Ds max)	-	-	-	-	-
Smoke density (Ds max)	-	-	-	-	-
Toxicity (CIT _{NLP})	NF X70-100-1/-2	-	-	-	-
Toxicity (CIT _{G, 8 min})	EN 17084	-	-	-	-

Characteristics and applications

Electrical and electrotechnical applications. Suitable as high-frequency insulation thanks to low dielectric dissipation. Used e.g. as insulation material in large induction furnaces for smelting metals. Usable as lamp shade material in thicknesses below 0.4 mm thanks to the high flexibility and high thermal stability of the material and discoloration not occurring.

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