ELEKTRO-ISOLA

G-Etronax PI - Sheet

Components: Colour*: Serial no.: Version no.:	Glass fabric - Polyimide ● Brown 770 V1.0-17/06/15		Closest relevant s IEC 60893: DIN 7735: NEMA LI 1:	standards PI GC 301 - -		
Mechanical properties		Test method	Thickness	Value	Unit	
Bending strength at RT		ISO 178	≥ 1,5 mm	450	MPa	*1
Bending strength at a hi	gh temperature	ISO 178	≥ 1,5 mm	360	MPa	*E
Modulus of elasticity		ISO 178	≥ 1,5 mm	25000	MPa	*1
Compressive strength		ISO 604	≥5 mm	650	MPa	*1
lzod impact strength, pa	rallel with layers	ISO 180/2A	≥5 mm	55	Kj/m²	*1
Shearing strength, para	lel	ISO 60893-2	≥5 mm	55	MPa	*1
Tensile strength		ISO 527	≥ 1,6 mm	300	MPa	*1
Electrical properties		Test method	Thickness	Value	Unit	
Electrical strength in oil	at 90°C, perpendicular	IEC 60243-1	3 mm	20	kV/mm	*2
Electrical strength in oil	at 90°C, parallel	IEC 60243-1	≥ 3 mm	60	kV/25mm	*2
Permitivity 50 MHz		IEC 62631-2-1	≤3mm	4		*3
Permitivity 1 MHz		IEC 62631-2-1	≤ 3 mm	-		-
Dissipation factor 50 M	łz	IEC 62631-2-1	≤ 3 mm	0.01		*3
Dissipation factor 1 MHz	2	IEC 62631-2-1	≤3mm	-		-
Insulation resistance af	er submersion in water	IEC 62631-3-3	AI	500000	MΩ	*4
Comparative tracking in	dex	IEC 60112	≥3mm	250	СТІ	*1

Conditioning			Notes			
1	24h/23°C/50%RH	А	1h/130°C / measured at 130°C			
2	24h/23°C/50%RH + 1h/ in oil at 90°C	В	1h/150°C / measured at 150°C			
3	96h/105°C + 1h/23°C/20%RH	С	Halogen free			
4	24h/50°C/<20% RH + 24h in water at 23°C	D	1h/180°C / measured at 180°C			
5	96h/105°C + 1h/ in oil at 90°C	E	1h/200°C / measured at 200°C			

The above values are average values resulting from extensive tests in our laboratories. ELEKTRO-ISOLAA'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.

* Note that color and surface are indicative. As this is a technical product, colour and expression may vary according to dimensions, batches and machining. If you want further information or have special decorative needs, please feel free to contact us.



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Physical and thermal properties		Test method	Thickness	Value	Unit	
Temperature index 20,000 h (T.I.)		IEC 60216	≥ 3 mm	190	°C	-
Fire class		IEC 60695-11-10	≥4 mm	V-0	-	-
Density		ISO 1183-A	AI	1.95	g/cm ³	-
Water absorption		ISO 62-1	50x50x3 mm	25	mg	-
Smoke emission & toxic	ty	EN 45545-2; R22, R23 & R24	-	-	-	-
Oxygen Index(OI)		EN ISO 4589-2	-	-	%	-
Smoke density (Ds max.)		EN ISO 5659-2	-	-	-	-
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$Toxicity(CIT_{NLP})$		NF X 70-100-1/-2	-	-	-	-

Characteristics and applications

The most thermally stable material of all the types, it retains its outstanding mechanical properties even at very high application temperatures. Used as thermal insulation plates in moulding tools, presses and similar with strict requirements to compression strength and thermal stability. See the curve.

Condi	tioning	Notes	
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