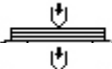

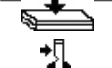

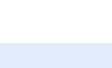
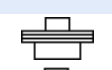





## Etronax MF - Sheets

**Components:** Cotton Fabric - Phenolic  
**Colour:** Brown  
**Serial No.:** 222  
**Version no.:** V1.0-17/06/15

**IEC 60893:** PF CC 201  
**DIN 7735:** Hgw 2082  
**NEMA LI 1:** C

Mechanical properties		Testmethod	Thickness	Value	Unit	
Flexural strength at RT		ISO 178	≥ 1,6 mm	115.0	MPa	*1
Flexural strength at elevated temp.		ISO 178	≥ 1,6 mm	-	MPa	-
Modulus of elasticity		ISO 178	≥ 1,6 mm	7000	MPa	*1
Compressive strength		ISO 604	≥ 5,0 mm	320	MPa	*1
Izod impact strength, parallel		ISO 180/2A	≥ 5,0 mm	10	KJ/m2	*1
Shearing strength, parallel		IEC 60893-2	≥ 5,0 mm	40	MPa	*1
Tensile strength		ISO 527	≥ 1,6 mm	80	MPa	*1
Electrical properties		Testmethod	Thickness	Value	Unit	
Electric strength in oil at 90°C		IEC 60243-1	3,0 mm	1.0	kV/mm, perpendicular	*2
Electric strength in oil at 90°C		IEC 60243-1	≥ 3,0 mm	5.0	kV/25mm, parallel	*2
Permittivity 50 Hz		IEC 60250	≥ 1,6 mm	-	-	-
Permittivity 1 MHz		IEC 60250	≥ 1,6 mm	-	-	-
Dissipation factor 50 Hz		IEC 60250	≥ 1,6 mm	-	-	-
Dissipation factor 1 MHz		IEC 60250	≥ 1,6 mm	-	-	-
Insulation   resistance after immersion in water 1 MHz		IEC 60167	All	1.0	M Ω	*4
Comparative   tracking index		IEC 60112	≥ 3,0 mm	100	CTI	*1
Physical and thermal properties		Testmethod	Thickness	Value	Unit	
Thermal endurance index 20.000 h (T.I.)		IEC 60216	≥ 3,0 mm	100	°C	-
Flammability		IEC 60695-11-10	3,0 mm	-	-	-
Density		IEC 1183-A	All	1.35	g/cm <sup>3</sup>	*1
Water absorption		ISO 62-1	50x50x3 mm	120	mg	*4

### Characteristics and applications

Exclusively for mechanical applications. Impact-resistant, resistant to mechanical wear, noise-reducing, low friction. Well suited as a construction element where there are high mechanical load and wear. Good wear resistance in aggressive and dust-filled environments. Can be lubricated with water, oil or grease. Resistant to weather and salt water. Alternative to material containing asbestos.

### Notes

- A) Thickness > 8mm.
- B) Thickness 4,0mm
- C) 1 h/130°C / measured at 130°C
- D) 1 h/150°C / measured at 150°C
- E) 1 h/180°C / measured at 180°C
- F) 1 h/200°C / measured at 200°C

### \* Conditioning

- 1 : 24h/23°C/50%RH
- 2 : 24h/23°C/50%RH + 1h/Oil 90°C
- 3 : 96h/105°C + 1h/23°C/20%RH
- 4 : 24h/50°C + 24h/water 23°C
- 5 : 96h/105°C + 1h/Oil 90°C

The above values are average values based on the results of extensive testing in our laboratories. ELEKTRO-ISOLA A/S cannot accept responsibility for the performance of our products in applications over which we have no control. Elektro-Isola A/S reserves the right to amend the above data without notice and without providing further information. Moreover, we refer to our general disclaimer.