

TECHNICAL DATA

NOVOPORE® M SERIES

Flexible Mica Products

DESCRIPTION

Flexible porous tape consisting of highly absorbent muscovite mica paper bonded to glass fabric with a small amount of uncatalysed epoxy resin.

APPLICATION

Main wall and overhang insulation for Class F & H (155/180°C) low and high voltage stator coils where the global winding will be vacuum pressure impregnated (VPI) with epoxy or polyester resin systems.

Final properties (electrical, mechanical and thermal) will depend upon the type and properties of the VPI resin used, as well as the impregnation and curing cycles.

Compatibility of Novopore® M tapes with the VPI resin should be confirmed in advance.

PROPERTIES	UNITS	NOVOPORE® GRADE		
		2M	3M	4M
Thickness	mm	0.10 ± 0.02	0.12 ± 0.02	0.14 ± 0.02
Total weight	g/m ²	116 ± 11	160 ± 16	204 ± 19
Mica paper content	g/m ²	80 ± 6	120 ± 10	160 ± 13
Glass fabric content	g/m ²	24 ± 2	24 ± 2	24 ± 2
Resin content	g/m ²	12 ± 3	16 ± 4	20 ± 4
Tensile strength	N/cm	> 100	> 100	> 100
Stiffness @ 20°C	N/m	< 60	< 80	< 100
Shelf-life @ 20°C, 50% r.h.	Months	24	24	24

AVAILABILITY

Standard widths	mm	15, 20, 25, 30, 500, 1000 (Others on request)
Standard roll length	Metres	50 (Others on request)
Standard core	mm	55mm plain plastic, 25mm Micafil machine (Others on request)

* All tests as per IEC 60371-2 unless otherwise stated

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