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HYPERFIL® UNE
Resin Coated Nomex® Aramid Paper

DESCRIPTION

Hyperfil® UNE consists of Nomex® 411 uncalendared aramid paper coated on both sides with an epoxy resin system. During manufacture, the resin coating is cured to a 'B-stage' to give a dry, flexible material capable of being laminated under heat and pressure to form rigid boards or laminated structures.
Thermal class 155°C (Class F) according to IEC 60085.

APPLICATIONS

Hyperfil® UNE is employed as inter-turn insulation and packing on salient pole field coils in electric machines, enabling the coils to be consolidated into a fully bonded structure.
Other uses are as inter-turn insulation in transformer and transducer windings, or any other application where a mouldable packing insulation is required.

TYPICAL PROPERTIES		HYPERFIL® GRADE		
	Units	UNE 5	UNE 7	UNE 10
Total nominal thickness	mm	0.18 ± 0.02	0.23 ± 0.02	0.3 ± 0.02
Total weight	g/m²	88 ± 18	135 ± 20	155 ± 20
Nomex® 411 thickness	mm	0.13	0.18	0.25
Nomex® 411 weight	g/m2	40	64	78
Coating weight	g/m2	48	71	77
Breakdown voltage	kV	N/A	N/A	N/A
Thermal rating, IEC 60085	°C	155 (F)	155 (F)	155 (F)
Cure time @ 160°C	Hours	3	3	3
Shelf-life @ 20°C	Months	3	3	3
Shelf-life @ 5°C		12	12	12
PACKING & SUPPLY				
Standard widths	mm	10 - 965	10 - 965	10 - 965
Standard roll length (Others on request)	m	50	50	50
Standard cores (Other on request)	mm	55 or 76	55 or 76	55 or 76
Interleaving		Blue polythene		