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## TECHNICAL DATA

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HYPERFIL ${ }^{\circledR}$ UNE
Resin Coated Nomex ${ }^{\circledR}$ Aramid Paper

## DESCRIPTION

Hyperfil ${ }^{\circledR}$ UNE consists of Nomex ${ }^{\circledR} 411$ 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 $155^{\circ} \mathrm{C}$ (Class F) according to IEC 60085.

## APPLICATIONS

Hyperfil ${ }^{\circledR}$ 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 ${ }^{\text {® }}$ GRADE |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Units | UNE 5 | UNE 7 | UNE 10 |
| Total nominal thickness | mm | $\begin{gathered} 0.18 \\ \pm 0.02 \end{gathered}$ | $\begin{gathered} 0.23 \\ \pm 0.02 \end{gathered}$ | $\begin{gathered} 0.3 \\ \pm 0.02 \end{gathered}$ |
| Total weight | $\mathrm{g} / \mathrm{m}^{2}$ | $88 \pm 18$ | $135 \pm 20$ | $155 \pm 20$ |
| Nomex ${ }^{\circledR} 411$ thickness | mm | 0.13 | 0.18 | 0.25 |
| Nomex ${ }^{\circledR} 411$ 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 | ${ }^{\circ} \mathrm{C}$ | 155 (F) | 155 (F) | 155 (F) |
| Cure time @ $160^{\circ} \mathrm{C}$ | Hours | 3 | 3 | 3 |
| Shelf-life @ $20^{\circ} \mathrm{C}$ | Months | 3 | 3 | 3 |
| Shelf-life @ $5^{\circ} \mathrm{C}$ |  | 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 |  |  |

[^0]Statements, technical information and recommendations contained herein are based on tests we believe to be reliable but they are not to be construed in
any manner as warranties expressed or implied. The user shall determine the suitability of the product for their intended use and the user assumes all risk
and liability whatsoever in connection therewith.


[^0]:    ® Registered trademark

