

Foxwood Close Foxwood Industrial Park Sheepbridge Chesterfield Derbyshire S41 9RB

United Kingdom

T: 01246 261 828 F: 01246 261 830 sales@par.uk.com www.par.uk.com

Page 1 of 1

## TECHNICAL DATA

## HYPERFIL<sup>®</sup> UNE Resin Coated Nomex<sup>®</sup> Aramid Paper

## DESCRIPTION

Hyperfil<sup>®</sup> UNE consists of Nomex<sup>®</sup> 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<sup>®</sup> 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 <sup>®</sup> GRADE			
	Units	UNE 5	UNE 7	<b>UNE 10</b>
Total nominal thickness	mm	0.18	0.23	0.3
		$\pm 0.02$	± 0.02	± 0.02
Total weight	g/m <sup>2</sup>	$88\pm18$	$135\pm20$	$155\pm20$
Nomex <sup>®</sup> 411 thickness	mm	0.13	0.18	0.25
Nomex <sup>®</sup> 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		

Registered trademark

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.