

Flexible insulation laminates non woven fleece / pet / non woven fleece

GENERAL DESCRIPTION

Coveme DyFlex® insulating products derive from the coupling of a polyester non woven fleece with a polyester plastic film. The non woven polyester fleece employed is made out of short fibers strongly calendered to the polyester film by appropriate adhesives. The main function of the fabric is to improve the thermal aging performance of polyester film. Further improvements in the overall performance of the laminate are achieved by saturating the non woven fleece with special synthetic resins. Coveme DyFlex® laminates are available both unsaturated (ISF and IDF) and saturated (SF and SDF). The unsaturated version is natural white, the saturated one is pink (other colours available upon request).

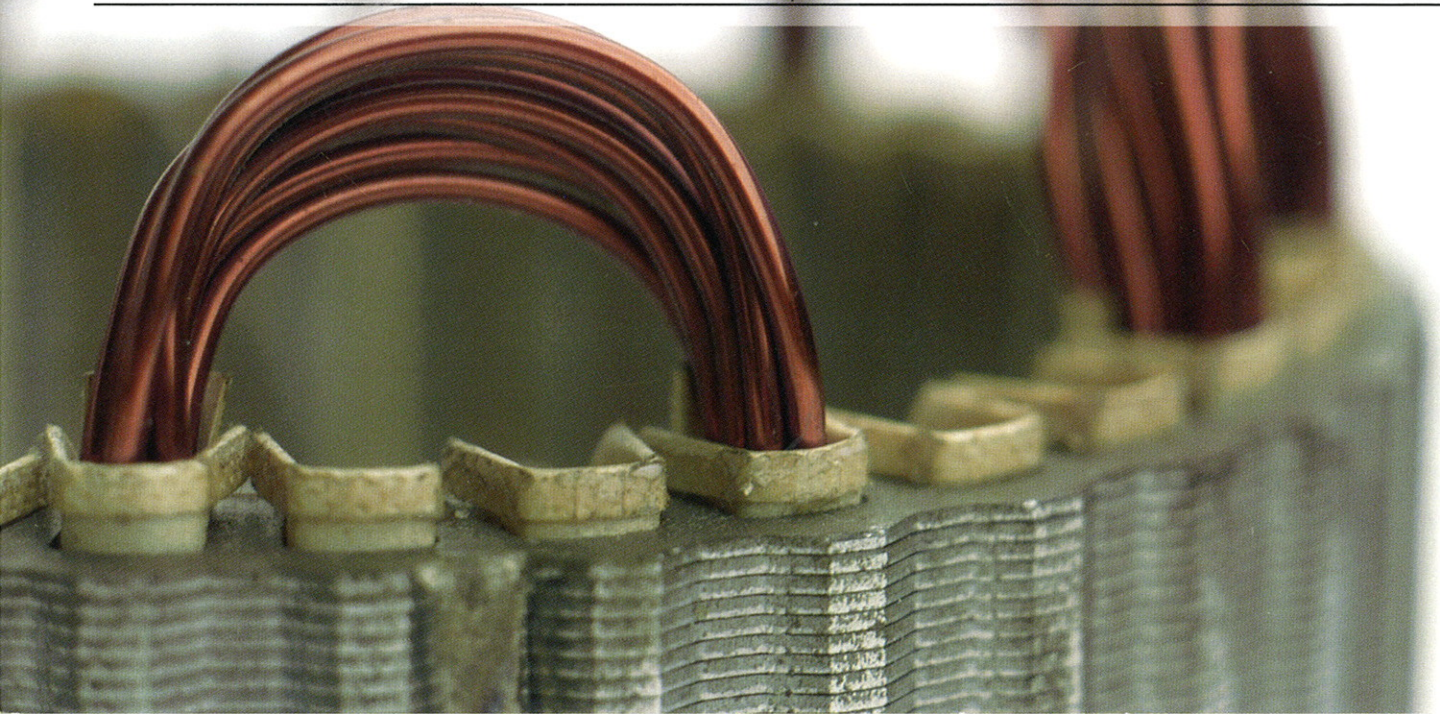
DyFlex® laminates are supplied in untrimmed rolls 910 mm wide with i.d. 76 mm. Different widths can be supplied upon request, starting from a minimum width of 6 mm with increments of 0.1 mm. The cutting tolerance is +/- 0.2 mm.

The values given in the table are average values and not to specifications. The total thickness tolerance is +/- 15% for laminates with films of thickness up to 190µ and +/- 10% for laminates with films of thickness 250µ and 350µ. The tolerance on the basis weight and yield is +/- 12% (IEC 626).

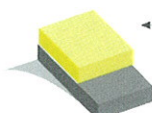
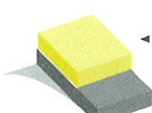
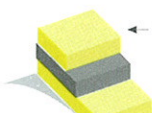
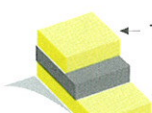
END-USES

Coveme DyFlex® laminates are designed for the insulation of electric motors, transformers and electrical equipment of class B 130° or F 155°. In electrical motors or, in general, in rotating machines, these laminates are used in slot closure and insulation as well as to separate phases on the heads of the windings. In transformers and electrical static equipment DyFlex® is used as interlay insulator.

DyFlex type®	Product Structure	Treatment
ISF	Double	Unsaturated
SF	Double	Saturated
IDF	Triple	Unsaturated
SDF	Triple	Saturated



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DyFlex type		Total thick. mm	Film thick. μ	Yield sqm/Kg	Basis weight g/mq	Tensile strength N/cm	Elongation % min	Breakdown voltage kV
ISF Two plies laminates 		50	0,10	9,524	105	110	20	6
		75	0,13	7,143	140	140	20	7
		100	0,15	5,714	175	160	20	9
	← TNT fleece	125	0,18	4,762	210	200	20	10
	Film	190	0,25	3,278	305	300	20	15
		250	0,30	2,597	385	330	20	18
		350	0,40	1,905	525	400	20	22
SF Two plies laminates 		50	0,10	9,091	110	110	20	6
		75	0,13	6,896	145	140	20	7
		100	0,15	5,556	180	160	20	9
	← TNT fleece	125	0,18	4,651	215	200	20	10
	Film	190	0,25	3,226	310	300	20	15
		250	0,30	2,564	390	330	20	18
		350	0,40	1,887	530	400	20	22
IDF three plies laminates 		50	0,15	7,143	140	110	20	6
		75	0,18	5,714	175	140	20	7
		100	0,20	4,762	210	160	20	9
	← TNT fleece	125	0,23	4,000	250	200	20	10
	Film	190	0,30	2,941	340	300	20	15
	← TNT fleece	250	0,35	2,381	420	330	20	18
		350	0,45	1,786	560	400	20	22
SDF Three plies laminates 		50	0,16	6,667	150	110	20	6
		75	0,18	5,405	185	140	20	7
		100	0,21	4,545	220	160	20	9
	← TNT fleece	125	0,23	3,846	260	200	20	10
	Film	190	0,30	2,857	350	300	20	15
	← TNT fleece	250	0,35	2,326	430	330	20	18
		350	0,45	1,754	570	400	20	22

The values given are average values and not specifications

DyFlex® is Coveme's trademark

Coveme spa is UNI EN ISO 9001-2008 certified



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