



# Flexible Composite Materials



## GENERAL

**FCM® is an flexible insulating materials TP & TK Series** Slot-liner composites are two layer composite flexible sheet materials with high mechanical strength produced by bonding polyester film to Press Board electrical paper using synthetic adhesive. It is a low cost Class B (130°C) material which has many advantages over polyester film. The advantage are better varnish absorption and flexibility.

## APPLICATIONS

**TP & TK Series** Slot Liner composites find use predominantly as electric motor slot and overhang insulation on Class B (130°C) rated machines. It can be used on automatic inserting machines as a slot-liner and wedge and also used in air and oil cooled transformers, electric fans and on domestic appliances, as terminal shields, etc.

**TP & TK Series** can use in P. Leo Class B UL Electrical Insulation system under OBJ52 UL file No. E200050.

## TYPICAL PROPERTIES

Part #	Thickness(mm)	Tensile Strength (kgt/15mm)	Tear Resistance (kgf/20 mm)	Breakdown Voltage (kv)	Width (mm)	Length (m)
TK-5008	0.14	14↑	19↑	8↑	1000	200
TK-5013	0.19	18↑	20↑	8.5↑	1000	200
TP-2513	0.17	15↑	9↑	6↑	1000	200
TP-2518	0.21	16↑	10↑	6.5↑	1000	200
TP-2525	0.28	25↑	10↑	6.5↑	1000	200
TP-5025	0.31	26↑	12↑	12↑	1000	200

## CONSTRUCTION

Symbol & Nominal Overall Thickness (mm)	Layer thickness / Paper + PET (mil)	Press Board paper (mm)	Polyester Film (mm)
TK-5008 0.14	3 + 2	0.08	0.050
TK-5013 0.19	5 + 2	0.13	0.050
TP-2513 0.17	5 + 1	0.13	0.025
TP-2518 0.21	7 + 1	0.18	0.025
TP-2525 0.28	10 + 1	0.25	0.025
TP-5025 0.31	10 + 2	0.25	0.050

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