

Prepregs

Flexpreg® FP 58012

Description: Flexpreg® FP 58012 is a flexible insulating material for electrical machine construction coated with thermosetting resin (B-stage) on one side or both sides.

Properties: Flexpreg® FP 58012 has good compatibility with thermoplastic and thermosetting self-bonding wire coatings. The uniform, smooth, non-sticky coating of Flexpreg® FP 58012 provides good processability on automatic machines. When cured, the coatings are resistant to transformer and hydraulic oil, lubricant, most organic solvents, dilute alkalis and acids, salt water detergents.

Application: Flexpreg® FP 58012 can be used in slot insulations, slot closure, interphase and overhang insulation, locking plates, layer insulation in coils and insulation of strip windings in transformers.

Delivery forms: Flexpreg® FP 58012 can be delivered in rolls and strips, customized cuts and die-cut parts. Other delivery forms upon customer request.

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Property	Test method	Unit	Value
Chemical composition			Epoxy-phenolic-precondensate
Can be etched with			Acetone, ethylacetate
Softening point in condition as delivered		°C	80
Baking temperature min.		°C	160
Resoftening temperature after curing		°C	>180
Baking method			By current impulse or oven baking
Storage			Well-packed condition at RT
Shelf-life in B-stage		Min.	6 months
High-grade pressboard or electrical insulating paper (0,05 mm thick, insulating class A)	VDE 0530 Part 1	°C	105
Polyester film (0,05 mm thick, insulating class B)	VDE 0530 Part 1	°C	130
Triflexil M (0,10 mm thick, insulating class B)	VDE 0530 Part 1	°C	130
Triflexil M/VL (0,10 mm thick, insulating class B/F)	VDE 0530 Part 1	°C	130/155
NMN (0,13 mm thick, insulating class F)	VDE 0530 Part 1	°C	155
Aramid paper (0,08 mm thick, insulating class H)	VDE 0530 Part 1	°C	180
NKN (0,13 mm thick, insulating class H)	VDE 0530 Part 1	°C	180

Trademark information: Flexpreg® is a registered trademark of Dr. Dietrich Müller GmbH, Germany.

Dr. Dietrich Müller GmbH

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Please note:

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and the user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.

Dr. Dietrich Müller GmbH