

Prepregs

Flexpreg® FP 58011

Description: Flexpreg® FP 58011 consists of a glass mat compressed with a small amount of epoxy resin to a rigid but porous laminate. Flexpreg® FP 58011 contains only a small amount of binder and is therefore it is porous and absorbed. At temperatures >60°C or in contact with impregnating resins the laminate swells to about 150% of the initial thickness and fills up all existing free space. The development pressure is approximately 0.1 N/mm². The properties of the final laminate depend on the impregnating resin and the amount of swelling.

Application: Flexpreg® FP 58011 can be used in VPI systems as interlayer, spacer or filling material in different parts of electrical windings. Flexpreg® FP 58011 was development especially for impregnating resins containing accelerator or catalyst.

Formats: Sheet size:
1000 ±50 x 2000 ±50 mm
1000 ±50 x 1000 ±50 mm
1000 ±50 x 500 ±50 mm

Storability: Minimum 6 months at 20°C.
Minimum 12 months at 5°C.
Attention: Do not store above 30°C!

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Processing Advice: Flexpreg® FP 58011 can be cut with hammer shears. Small strips should preferably be made out of thin laminates.

Properties	Test method	Unit	Value	Value	Value	Value
Nominal thickness	IEC 60371-2	mm	0.50 ± 0.02	0.85 ± 0.2	1.2 ± 0.2	2.2 ± 0.2
Total substance	IEC 60371-2	g/m ²	625 ±116	1200 ±216	1775 ±321	3500 ±636
Glass content	IEC 60371-2	g/m ²	435 ±90	870 ±170	1305 ±/255	2610 ±510
PET-fleece (both sides)	IEC 60371-2	g/m ²	50 ±6	50 ±6	50 ±6	50 ±6
Organic content (Resin. Finish. PET- fleece)	IEC 60371-2	g/m ²	190 ±26	330 ±46	470 ±66	890 ±126
Swelling (referred to initial thickness)	IVP 41	%	≥ 150	≥ 150	≥ 150	≥ 150
Colour			blue	blue	blue	blue

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

Please note: The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and 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