

Dr. Dietrich Müller GmbH, Zeppelinring 18, D-26197 Ahlhorn

Electrical Insulation Materials

Flexpreg® FP 58012

Description: Flexpreg® FP 58012 consists of a glass mat compressed with a small amount of epoxy resin to a rigid but porous laminate. Flexpreg® FP 58011 is covered with a thin PET-fleece to prevent glass dust during processing on both sides. Flexpreg® FP 58011 contains only a small amount of binder and therefore it is porous and absorbent. 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. Flexpreg® FP 58011 contains an accelerator for epoxy anhydride impregnating resins.

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 developed especially for impregnating resins based on epoxy anhydride.

Formats: Sheet size:
2000 +/-50 x 1000 +/-50 mm
1000 +/-50 x 1000 +/-50 mm
1000 +/-50 x 500 +/-50 mm

Stand August 2011



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info@mueller-ahlhorn.com | www.mueller-ahlhorn.com | Sitz der Gesellschaft: Ahlhorn
Geschäftsführer: Heinz-Jürgen Siebert | AG Oldenburg: HRB 209026 | Ust. ID-Nr.: DE 295969093
St.-Nr.: 68/207/07677 | Zertifiziert nach DIN EN ISO 9001:2008 | UL anerkannter Repacker E341377

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

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	DIN 863	mm	0.50 +/-0.02	0.85 +/-0.2	1.2 +/-0.2	2.2 +/-0.2
Total substance	IPV 4	g/m ²	660 +/-115	1270 +/-225	1880 +/-335	3710 +/-665
Glass	IPV 4	g/m ²	435 +/-90	870 +/-170	1305 +/-255	2610 +/-510
PET-fleece (both sides)	IPV 4	g/m ²	50 +/-5	50 +/-5	50 +/-5	50 +/-5
Organic content (Resin. Organic accelerator content. finish. PET-fleece)	IPV 4	g/m ²	225 +/-25	400 +/-55	575 +/-80	1100 +/-155
Accelerator (Zn)	IPV 19	g/m ²	25 +/-5	53 +/-7	80 +/-10	160 +/-20
Sweeling	IPV 42	%	≥ 150	≥ 150	≥ 150	≥ 150
Compressive strength parallel to laminations after impregnation with Votastat 100/90 at 0% swelling and at 100% swelling	DIN 53454	MPa	≥ 400	≥ 400	≥ 400	≥ 400
		MPa	≥ 250	≥ 250	≥ 250	≥ 250

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Colour | | | red | red | red | red

Flexpreg® FP 58011

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.

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