

Prepregs

Flexpreg® FP 58018

Description: Flexpreg® FP 58018 is a prepreg with Nomex® 410 as base material, which is coated on both sides (all-over or diamond-shaped) with an epoxy-resin.

Properties: Flexpreg® FP 58018 is insulating up to insulating class H (180°C) and offers excellent electrical and mechanical properties.

Application: Flexpreg® FP 58018 is suitable for motors and generators.

Delivery forms: Flexpreg® FP 58018 can be delivered on a roll or as a strip, customized cut or die-cut part. Other delivery forms upon customer request.

Storage conditions: Flexpreg® FP 58018 lasts for min. 3 months, if stored at 20°C, 6 months, if stored at 10°C.

Dr. Dietrich Müller GmbH

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Properties	Test method	Unit	Value		
Colour			Pale-yellow	Pale-yellow	Pale-yellow
Average Thickness	IEC 626-2	mm	0,15 ± 0,02	0,20 ± 0,02	0,27 ± 0,02
Individual thickness	IEC 626-2	mm	0,15 ± 0,04	0,20 ± 0,04	0,20 ± 0,04
Surface weight	IEC 626-2	g/m ²	137 ± 20	200 ± 20	273 ± 20
Adhesive content	ABB 409-01	g/m ²	25 ± 5	25 ± 5	25 ± 5
Resin-flow		%	>8	>5	>3,5
Fleeting content	ABB 106-01	%	Max. 5	Max. 5	Max. 5
Dielectric strength	IEC 243	kV	Min. 3,5	Min. 5	Min. 6
Tensile shear strength, 20°C	1019 3112	N/mm ²	Min. 8	Min. 8	Min. 8
Tensile shear strength, 155°C	1019 3112	N/mm ²	Min. 8	Min. 8	Min. 8
Operating temperature		°C	180	180	180

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

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.

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