

EGSB[®] 2709

EGSB[®] 2709 consists of polyester-fabric, impregnated with a silicon carbide resin mixture in B-stage.

Properties

EGSB[®] 2709 is a flexible semi cured tape which shows a specific resistance characteristic, depending on voltage level due to the silicon carbide. Due to the improved adhesive properties a complete sealing between the layers of EGSB[®] 2709 is guaranteed. The final properties are achieved when the tape has been cured and the layers bond together.

Application

EGSB[®] 2709 is used for insulating systems in VPI Technology as voltage destressing covering on the overhang part of coils of high voltage machines.

Formats

Tapes: from 20mm wide, other widths on request.

Storage

Minimum of 12 months at 5°C; Minimum of 6 months at 20°C

Processing Advice

Pre curing for VPI-technology:

In combination with use of ISOSEAL[®] MF 0611 as endwinding sealing tape a pre curing time of 8 hours min. at 70°C is necessary, to prevent loosing silicon carbide in the resin bath. If no ISOSEAL[®] MF 0611 is used, a pre curing time of 8 hours min. at 100°C is necessary.

Minimum overlapped length with corona protection (e. g. CONTAFEL[®] H 0865): 10 mm

Length of EGSB[®] covering in cm:

$L/cm = \text{Test voltage (kV)} \text{ divided by } 5. (+ \text{ overlapped length with corona protective covering})$

Number of layers:

1x1/2 lapped taping is recommended for test voltages up to 40 kV.

At higher test voltages we recommend increased layers (2x1/2) for the first third of the wrapper.

ISOVOLTA AG, A Constantia Iso AG Company
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Curing Conditions

2 hours at 160° C

Properties	Test Method	Unit	Value
Nominal Thickness		mm	0.24
Tolerance	DIN 863	mm	± 0.04
Total Substance	IPV no. 18	g/m ²	360 ± 35
Tensile Strength	DIN 53455	N/10mm	≥ 80
Elongation	DIN 53455	%	≥ 10
Surface Resistance (Measuring Voltage 1000 V. DC)	IEC 93	Ohm/square	≥ 10 ¹⁰
Current Characteristic (50 Hz) Voltage (kV/cm): 1.0 / 2.0 / 3.0 / 4.0 / 5.0 / 6.0 (after 2h 160°C)	IPV no. 65	A/cm x 10 ⁻⁶	approx. 0.8 / 2.0 / 3.2 / 8 / 15 / approx. 37

Typical surface resistance Rs (U) preliminary:

EGSB[®] 2709 0.24mm 1 x 50% on 10 kV VPI'ed coils 8 x 30mm in Epoxy System.

U / kV	4	5	6	7	8
Rs / M Ohms	1000	420	250	120	60

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