

## ISOVAL<sup>®</sup> RKB S

Composition

ISOVAL<sup>®</sup> RKB S is prepared from glass rovings impregnated with a special tracking resistant epoxy resin.

Application

ISOVAL<sup>®</sup> RKB S is used for cell partitions of switch gear cabinets specially for those applications where good tracking resistance and good resistance against impulse voltage spikes is needed.

**Technical Data** 

Properties according IEC 893	Testmethod	Unit	Value
Density	ISO 1183/A	g/cm³	approx. 2.0
Flexural strength at 23°C	ISO 178	MPa	> 350
Flexural modulus of elasticity	ISO 178	MPa	19000
Compressive strength perpendicular to laminations 23 °C	ISO 604	MPa	> 500
Impact strength (Charpy) parallel to laminations	ISO 179/3 C	kJ/m²	> 50
Tensile strength	ISO 527	MPa	250
Electric strength at 90°C in oil perpendicular to laminations (thickness 3mm)	IEC 243	kV/mm	> 13
Breakdown voltage at 90°C in oil parallel to laminations	IEC 243	kV	50
Permittivity at 50 Hz and 1 MHz	IEC 250	-	< 5.5
Dissipation factor at 50 Hz and 1 MHz	IEC 250	-	< 0.04
Insulation resistance after immersion in water	IEC 167	Ohm	5 x 10 <sup>10</sup>
Comparative tracking index	IEC 112	CTI	600
Thermal endurance	IEC 216	T.I.	150
Water absorption (thickness 10 mm)	ISO 62/1	mg	< 34
Rated lightning surge withstand voltage 3 / 4 / 6 / 8 mm	-	kV	95/125/170/170

Availability:

Thickness:3, 4, 6 and 8 mm, tolerances acc. DIN 40606Sheet size:3000 x 1200 mm and 2140 x 760, tolerance +30/-0 mmColour ligth beige,Cutttings are available on request.

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