

PRINOM[®] B 2083

Composition:

PRINOM[®] B 2083 consists of calendered Nomex¹ coated on both sides with a modified epoxy resin in B-stage.

Properties:

PRINOM[®] B 2083 can be cut easily into required dimensions and pressed in heated presses. The resin shows excellent adhesion to metallic surfaces.

Application:

PRINOM[®] B 2083 can be used for example for the insulation of rectangular wires or can be pressed as main insulation to coils for low voltage machines.

PRINOM[®] B 2083 can also be used to glue together and insulate conductors. For example insulation of pole coils in DC-motors. Another application is the interlayer insulation in foil transformers.

Formats:

Rolls : 914 mm wide untrimmed
Tapes: from 10 mm width upwards

PRINOM B 2083 will be delivered with PE-release film as interlayer.

Storability:

min. 6 months at 20° C
min. 12 months at 5° C

Pressing conditions:

Pressure: min. 2.5 N/mm²
Temperature: 120 minutes at 160° C
60 minutes at 170° C
30 minutes at 180° C

¹ NOMEX is a registered trademark of DU PONT

Technical Data

PRINOM® B 2083							
Properties	Test method	Unit	Value	Value	Value	Value	Value
Nominal thickness	DIN 0863	mm	0,07	0,10	0,15	0,16	0,17
Tolerance		mm	± 0,01	± 0,01	± 0,02	± 0,02	± 0,02
Total substance including interlayer film	IPV Nr. 4	g/m ²	97	121	173	183	192
Total substance except interlayer film	IPV Nr. 4	g/m ²	60	84	136	146	155
Nomex 410	IPV Nr. 4	µm	50	80	130	130	130
Resin content (both sides)		g/m ²	20			30	40
Breakdown voltage	IEC 243	kV/mm	13	18	21	21	21
Shear strength on Cu at RT at 155° C at 180° C	IPV Nr. 13	MPa	7 6 4				
Thermal classification	IEC 216 UL 1446	°C	180 180				

Technical Data

PRINOM® B 2083					
Properties	Test method	Unit	Value	Value	Value
Nominal thickness	DIN 0863	mm	0,20	0,27	0,32
Tolerance		mm	± 0,02	± 0,03	± 0,03
Total substance including interlayer film	IPV Nr. 4	g/m ²	230	305	333
Total substance except interlayer film	IPV Nr. 4	g/m ²	193	268	375
Nomex 410	IPV Nr. 4	µm	180	250	300
Resin content (both sides)		g/m ²	20		
Breakdown voltage	IEC 243	kV/mm	28	30	30
Shear strength on Cu at RT at 155° C at 180° C	IPV Nr. 13	MPa	7 6 4	6 5 4	
Thermal classification	IEC 216 UL 1446	°C	180 180		