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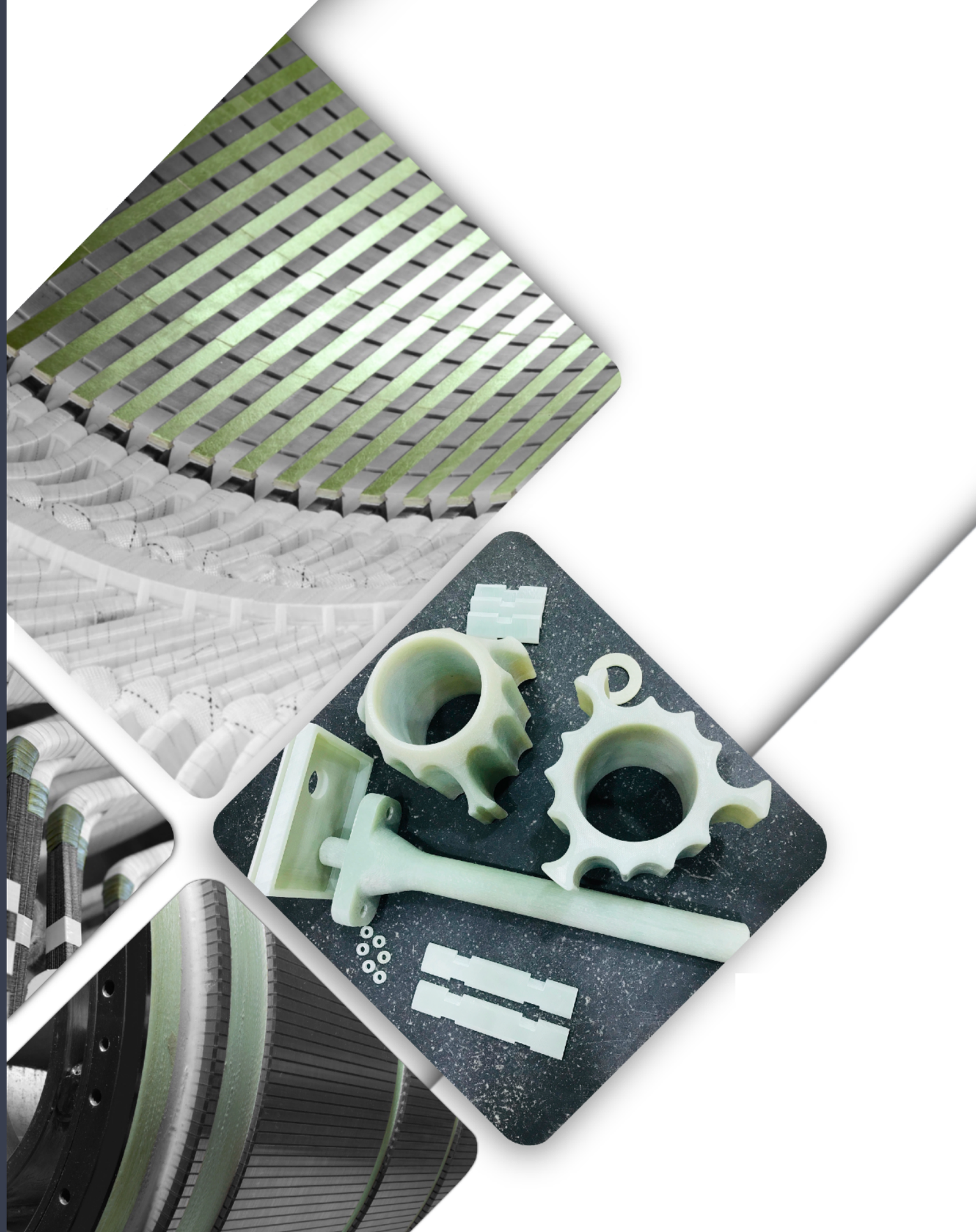


Since 1986

PROMINENT MANUFACTURERS AND FABRICATOR OF THERMOSETS AND ADVANCED ENGINEERING COMPOSITES & WINDING WIRES

MICAPLY stands out as a leading manufacturer and fabricator in the field of Advanced Engineering Composites and winding wires, offering materials that exhibit exceptional thermal stability, mechanical performance, and chemical resistance.

As a result, our products find extensive utilisation across various industries.

Our materials are vital components in the manufacturing of electrical components and durable goods, playing a significant role in industries such as Aerospace, Railways, Heavy Duty Construction Equipment, Energy (including Oil, Gas, Water, Wind, and Solar Generators), and Automotive Manufacturing.

The versatility of our products allows them to be used in an array of applications. For instance, they are integral in the production of Wind Generators, Hydro Generators, Electric Locomotives, AC Induction Traction Motors, DC Traction Motors, Equipment Panels, Electrical Housings and Components, Insulators, Cell tower tops, Heat Shields, Circuit Breakers, Agricultural feeding troughs, Motor Components, Disc Brake Pistons, and more.

MICAPLY's engineered electrical insulation products consistently meet industry standards and exceed customer expectations. With our commitment to excellence and innovative solutions, we continue to provide reliable and high-performance materials for a wide range of applications across multiple industries.

We offer competitive pricing, excellent quality, and reliable delivery. We specialise in custom thickness and sizes for short runs, prototypes, and production runs.

PRODUCT PORTFOLIO

THERMO-SET LAMINATES

- Epoxy Glass fabric sheets
- Epoxy Mat fabric sheets
- Polyster Glass Mat sheets
- Polyimide Glass Fabric sheets
- Phenolic Cotton sheets
- Low density epoxy sheets
- Conducting Glass fabric sheets
- DMC Moulded parts
- Carbon Fibre Moulded parts

WINDING WIRES

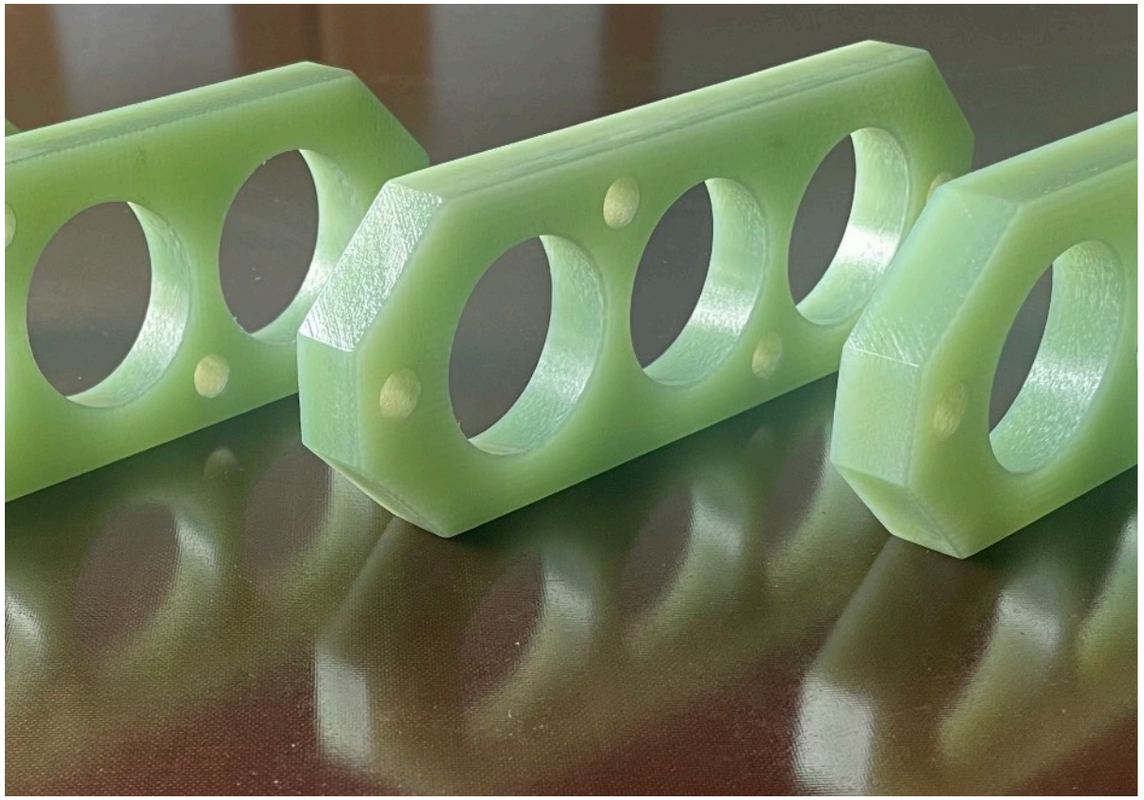
- Kapton® Covered Copper Wires
- Fibre Glass Taped Copper Conductors
- Fibre Glass Taped Aluminium Conductors
- Kraft Paper Taped Copper Conductors
- Kraft Paper Taped Aluminium Conductors
- Mica Taped Copper Conductors
- Mica Taped Aluminium Conductors

EPOXY/PHENOLIC TUBES AND RODS

- Glass Fabric Tubes / Rods
- Filament Winded Tubes
- End-Rings
- Other variants

ELECTRICAL INSUALTION TAPES

- Kapton® Adhesive Tape
- Poly Glass Banding Tape
- Glass Mica Tape
- Poly Glass Banding Tape



PRODUCT INFORMATION SHEET

EPOXY GLASS LAMINATE

NEMA G11

Laminated Sheet made from layers of fine and plain weave glass fabric, treated with Epoxy Resin having high temperature index unto 155ºC.
The material has high mechanical and electrical properties. It has a good mating and punching properties.
It conforms to NEMA LI-1/22 and MIL 24768/3

Sr. No.	Description	Units	Observed Values
MECHANICAL PROPERTIES			
1	Specific Gravity	-	1.7 - 1.9
2	Water Absorption	mg	≤ 20
3	Tensile Strength @ 23ºC	Mpa	≥ 300
4	Cross Breaking Strength @ 23ºC	Mpa	≥ 350
5	Cross Breaking Strength @ 150ºC	Mpa	≥180
6	Compression Strength	Mpa	≥ 480
7	Compression Strength @150ºC	Mpa	≥ 380
8	Charpy Impact Strength (Izod)	KJ/m2	≥ 34
9	Shear strength	Mpa	> 30
10	Modulus of elasticity	Gpa	> 24
ELECTRIC PROPOERTIES			
11	Di-electric Strength - Flatwise	Kv/mm	≥ 10.2
12	Di-electric Strength - Edge Wise	Kv/mm	≥ 35
13	Insulation Resistance	M Ohms	≥ 5×10^4
14	Comparative Tracking Index	Volts	≥ 200
15	Dissipation factor and permittivity at 250 V/ 50 Hz/ 25°C	-	0.004
16	Permittivity	-	4.98 @ 50Hz

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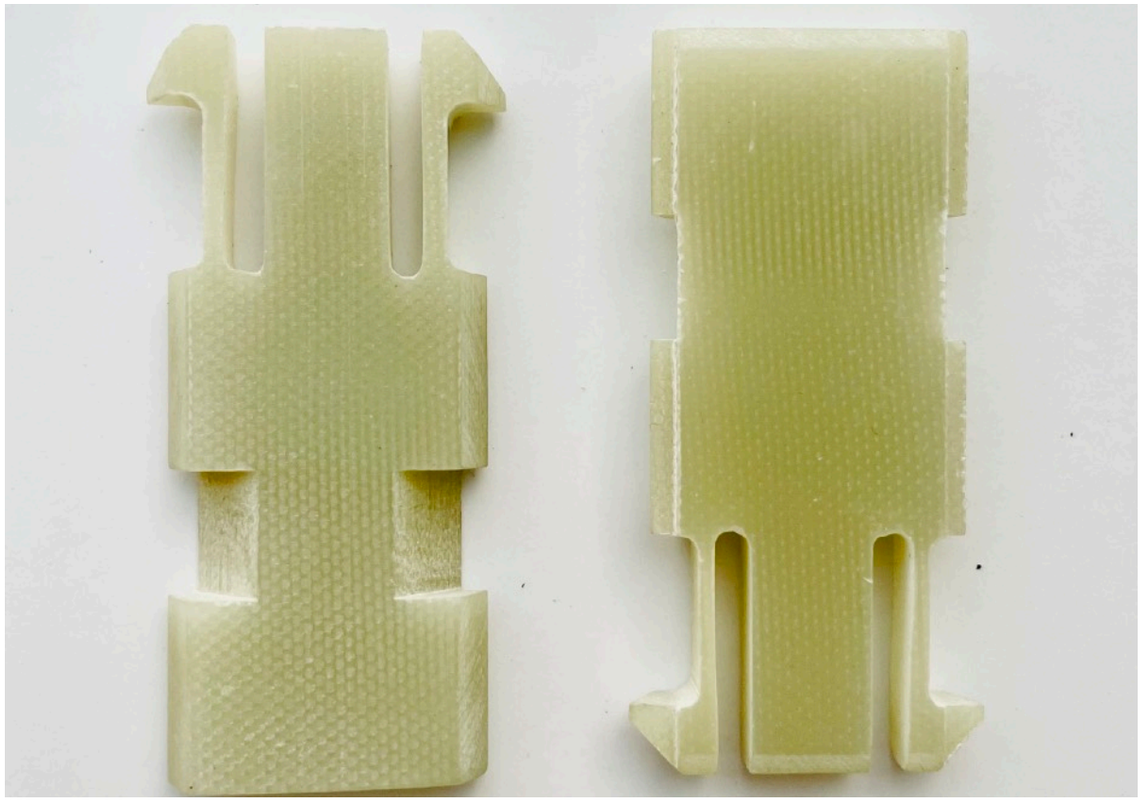

PRODUCT INFORMATION SHEET

EPOXY GLASS LAMINATE

G10

NEMA G10 Grade material is made with continuous filament woven fibreglass sheet bounded with epoxy resin.
The material has the ability to maintain excellent mechanical, electrical and physical properties at elevated temperature at 140ºC.

It confirms to NEMA L1 1/21 G10 and MIL Spec. 24768/2.

Sr. No.	Description	Units	Observed Values
MECHANICAL PROPERTIES			
1	Specific Gravity	g/m²	1.85 ± 5
2	Flexural Strength	MPa	> 380
2	Flexural Strength @ 140°C	%	50
3	IZOD Impact Strength	kj/m²	> 36
4	Water Absorption	%	< 0.15
5	Tensile Strength @ 23⁰C	MPa	> 300
ELECTRICAL PROPERTIES			
5	Breakdown Voltage Parallel to laminates	Kv	> 45
6	Breakdown Voltage Perpendicular to laminates	Kv/mm	> 15
7	Insulation resistance	M Ohm	> 5 x 10^4
8	Comparative Tracking Index	Volts	> 200

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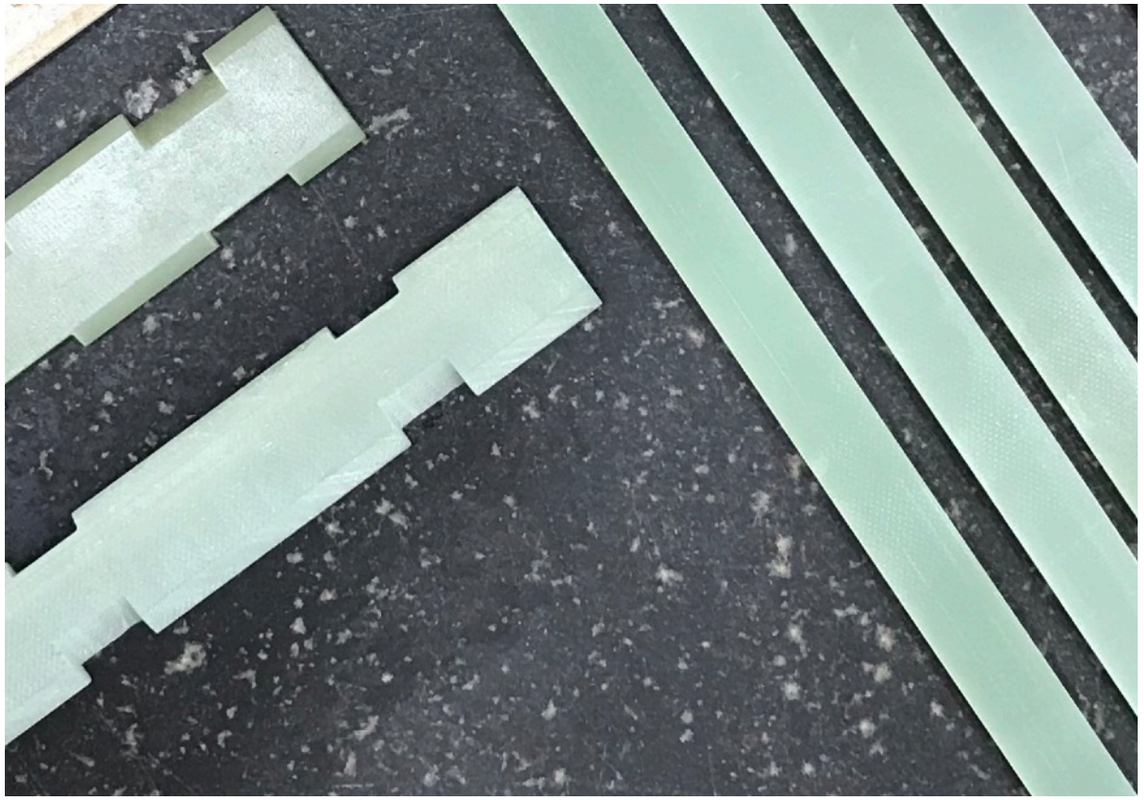

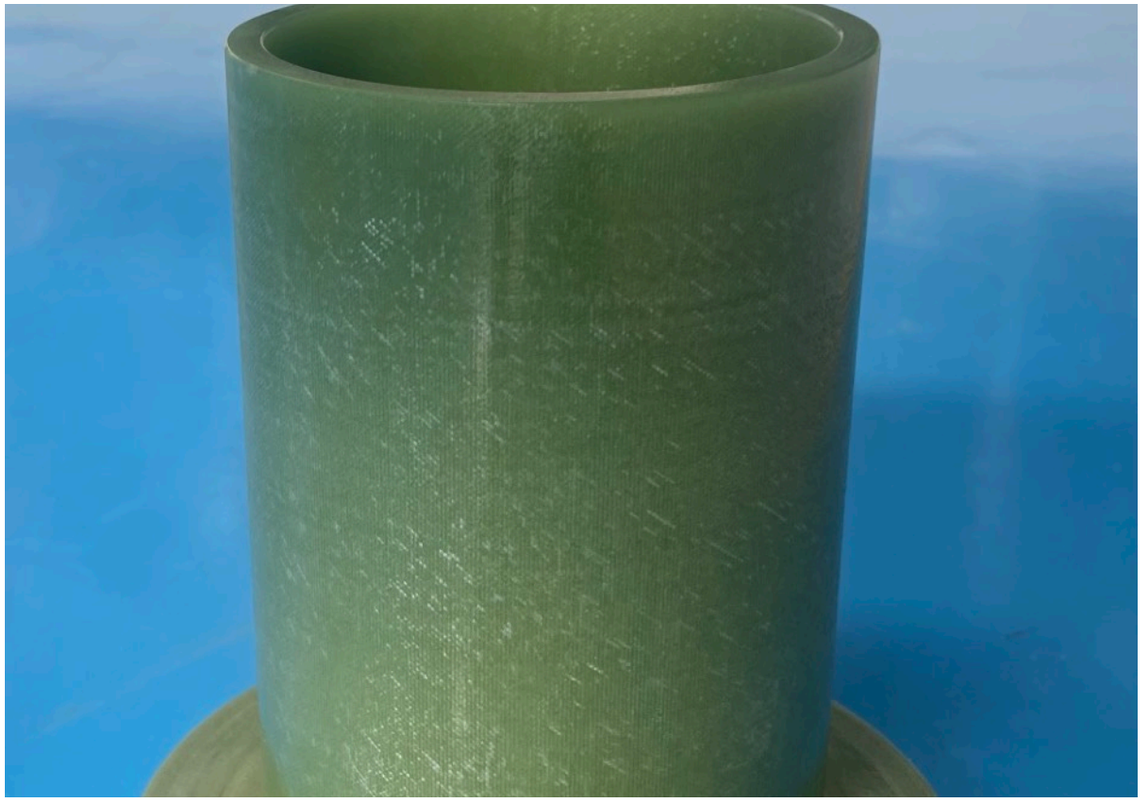

EPOXY GLASS LAMINATE

FR4

Laminated Sheet made from layers of fine and plain weave glass fabric , treated with Epoxy Resin having high temperature index unto 130ºC.
The material has high mechanical and electrical properties. It has a good mating and punching properties.
Material is Brominated and Fire retardant (FR)
It conforms to NEMA LI-1/27 and MIL 24768/27

Sr. No.	Description	Units	Observed Values
MECHANICAL PROPOERTIES			
1	Specific Gravity	-	1.7 - 1.9
2	Water Absorption	mg	≤ 20
2	Tensile Strength @ 23ºC	Mpa	≥ 300
3	Cross Breaking Strength @ 23ºC	Mpa	≥ 320
4	Cross Breaking Strength @ 130ºC	Mpa	≥160
5	Compression Strength	Mpa	≥ 350
6	Charpy Impact Strength	KJ/m2	≥ 34
ELECTRIC PROPERTIES			
7	Di-electric Strength - Flatwise	Kv/mm	≥ 10.2
8	Di-electric Strength - Edge Wise	Kv/mm	≥ 35
9	Insulation Resistance	Ohms	$\geq 5 \times 10^4$
10	Comparative Tracking Index	Volts	≥ 200
FIRE WORTHINESS PROPERTIES			
11	Flammability	Category	V0

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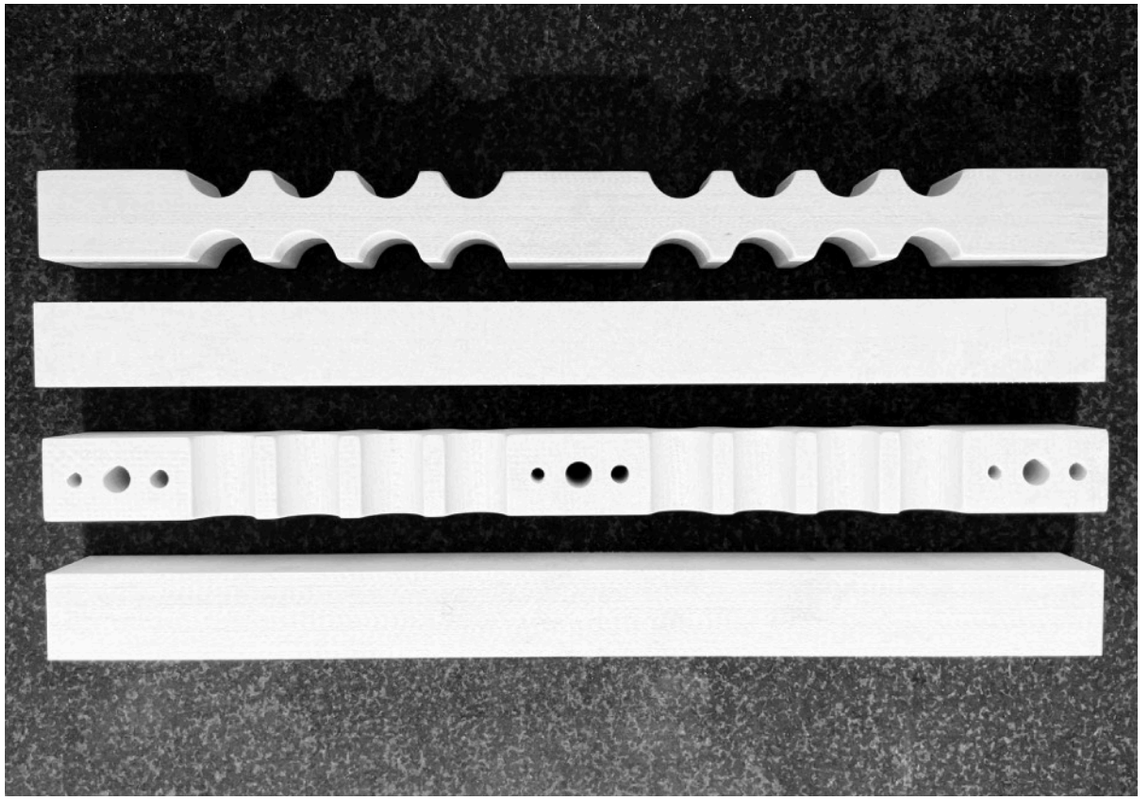

PRODUCT INFORMATION SHEET

POLYESTER GLASS LAMINATE

NEMA GPO3

Laminated Sheet made from layers of fine glass mat, treated with Resin having high temperature index unto 150ºC.
The material has high mechanical and electrical properties. It has a good mating and punching properties. It offers excellent flame, arc and track resistance.
Common Applications are in generators, transformers and railways components.

Testing Standard : NEMA GPO3

S l. No.	Properties	Unit	Observed Values
01.	Physical Appearance	--	Smooth
02.	Flexural Strength at Room Temperature	MPa	>150
03.	Flexural Strength at 130ºC	Mpa	>75
04.	Compressive Strength	Mpa	>250
04.	Tensile Strength	Mpa	>80
06.	Electric Strength at 90ºC in oil, Perpendicular to laminate	Kv/mm	13
07.	Breakdown Voltage at 90ºC in oil, Parallel to laminate	Kv	60
08.	Proof Tracking Index (CTI)	V	>600
09.	Flammability	UL94	V0
10.	Insulation Resistance	M.Ohm	>100
11.	Water Absorption Ability	%	0.06

Note: For this type of sheet, a slight porosity is entirely uncommon and cannot be ruled out. Due to not trimmed edges we cannot guarantee the homogeneity at the periphery.

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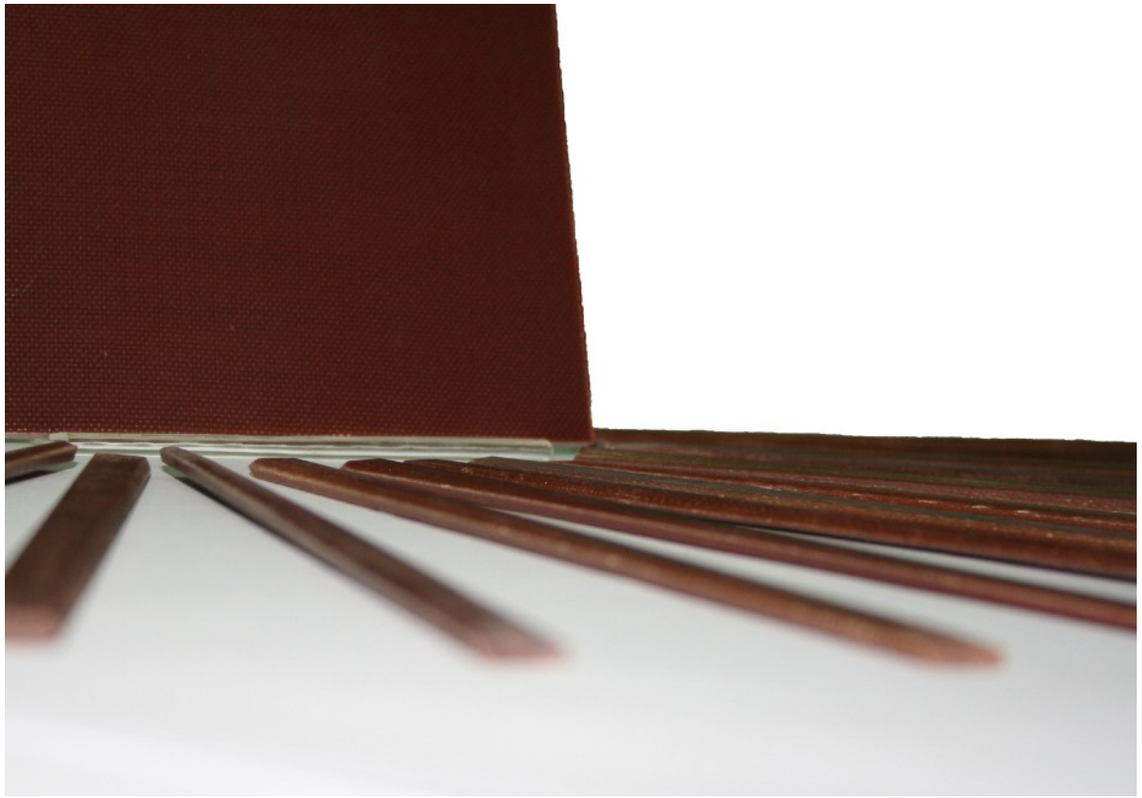

PRODUCT INFORMATION SHEET

POLYIMIDE GLASS LAMINATE

PIGC 301

Laminates made from layers of fine and plain weave glass fabric, treated with Polyimide Resin system having high temperature index of 200ºC.

Material shows excellent mechanical properties even at 250ºC.
The material has excellent Electrical properties and confirms to the flammability requirements as per EN45545-2

It confirms to the International standards EN 60893-3-7.

Sr. No.	Description	Units	Observed Values	Test Method
MECHANICAL PROPERTIES				
1	Density	g/cm^3	1.85	ISO 1183
2	Water Absorption	%	< 0.5	ISO 62
3	Cross Breaking Strength @ 23 ºC	N/mm^2	> 400	ISO 178
4	Cross Breaking Strength @ 200 ºC	N/mm^2	>300	ISO 178
5	Compression Strength	N/mm^2	> 480	1S0 604
6	Charpy Impact Strength	Kj/m^2	>45	ISO 179
7	Elastic Modulus	N/mm	22500	ISO 178
8	Elastic Modulus @ 180 ºC	N/mm	16200	ISO 178
ELECTRIC PROPERTIES				
9	Di-electric Strength - Flatwise	Kv/mm	> 12	IEC 60243
10	Di-electric Strength - Edge Wise	Kv/25 mm	> 70	IEC 60243
11	Insulation Resistance	M.Ohms	1000	IEC 60093
12	Comparative Tracking Index	Volts	600	IEC 60112
FIRE WORTHINESS PROPERTIES				
13	Flammability	-	HB	-
14	Deterioration of Visibility due to smoke	Ds	4	EN 45545-2 (R-23)
15	Limiting Oxygen Index	%	>90	EN 45545-2 (R-23)
16	Toxicity Test	-	0.1	EN 45545-2 (R-23)

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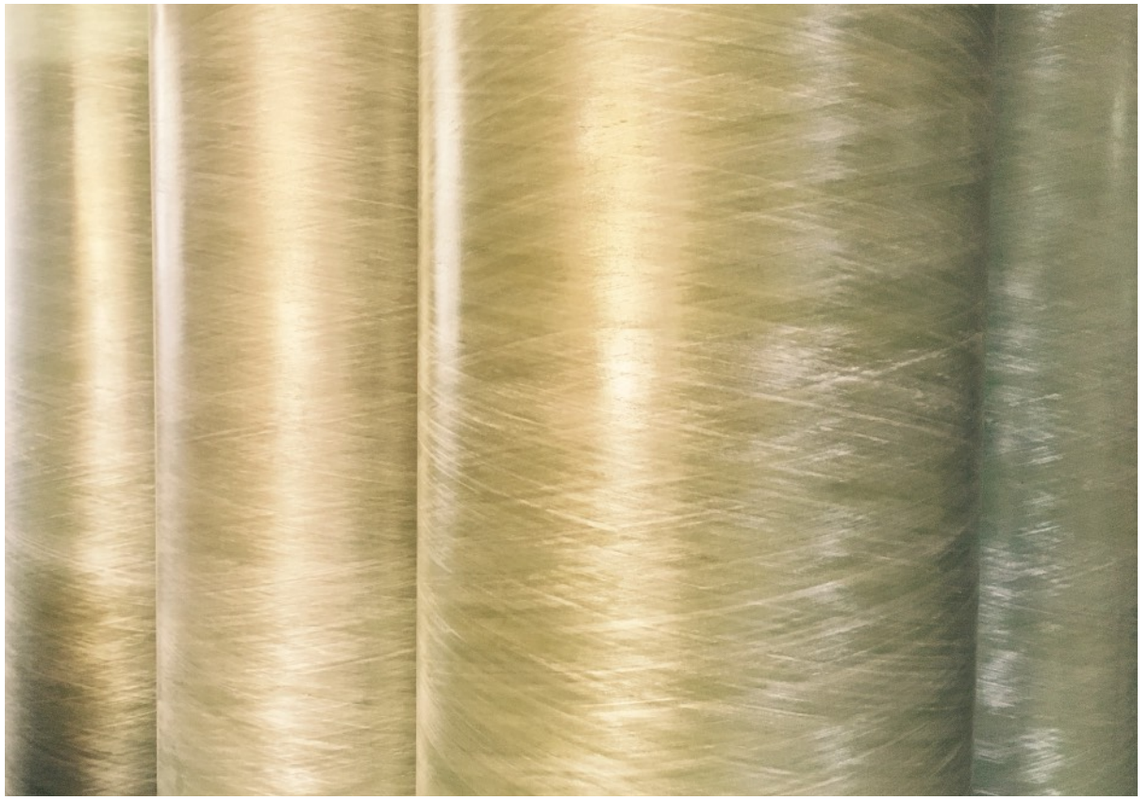

PRODUCT INFORMATION SHEET

EPOXY TUBES
EPGC 22

Epoxy Tubes are made of high strength glass cloth and high temperature resin system. The material offers high mechanical strength at ambient and high temperature conditions. It has a good machining properties, which enables us to meet the standards and tolerances. It conforms to EPGC 22, IEC/EN 61212-3-1 and HGW 2375.4.

Size: Maximum length 500mm.

Sr. No.	Description	Units	Observed Values
1	Flexural Strength	Mpa	≥ 300
2	Axial Compressive strength	Mpa	≥ 175
2	Cohesion between layers	Mpa	≥ 200
3	Breakdown voltage at 90ºC	Kv	≥ 40
4	Electric Strength at 90ºC	Kv/mm	≥ 10.2
5	Insulation Resistance	MOhms	≥ 1000
6	Thermal Endurance	TI	130
7	Water Absorption	mg/cm^2	≤ 1.5
8	Density	g/cm^2	1.8
9	Flammability	-	V-0

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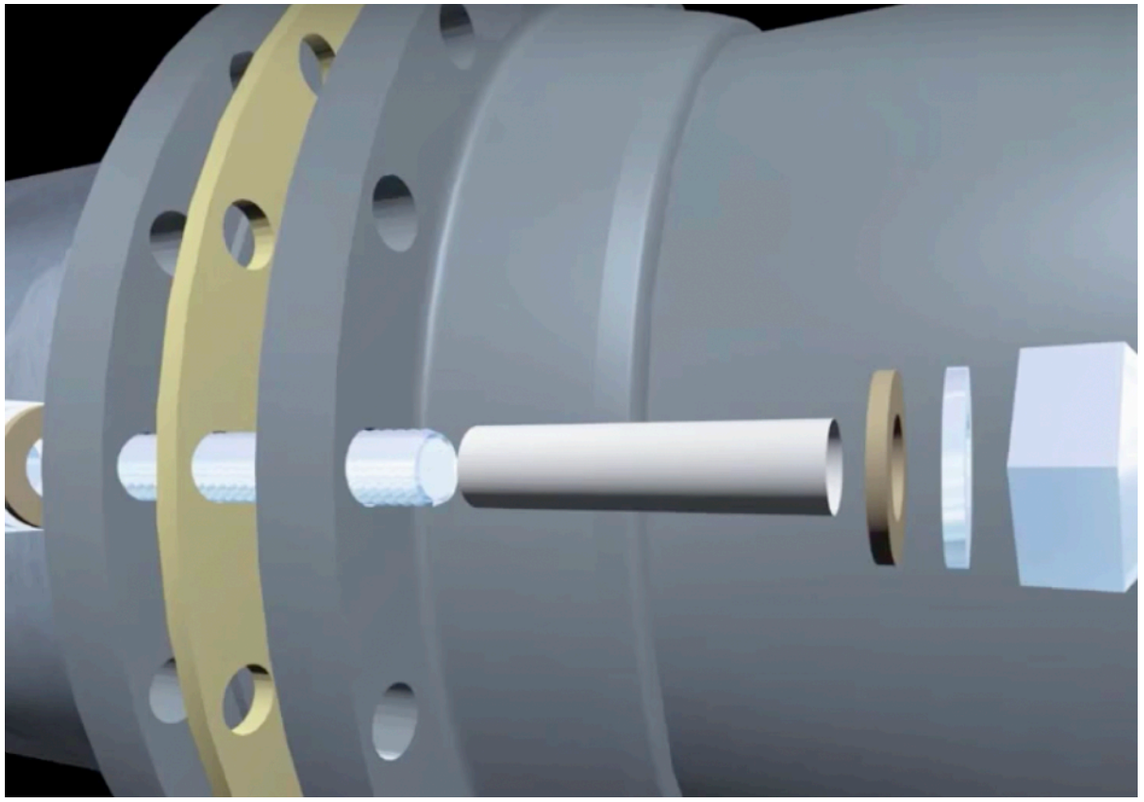

PRODUCT INFORMATION SHEET

FLANGE BOLTING INSULATION KIT

TYPE- F, TYPE- E, TYPE- D

Flange Bolting Insulation Kit is designed to seal properly any flange leakage in Pipeline systems.
Our gaskets are made of insulated materials, so that stray currents which are known behind the undue corrosion and eventual metallic breakdown are prevented.

Applications:
Are used in all such places where galvanic corrosion protection and electrical insulation is needed. Common Areas are pipeline systems with *seawater environments, offshore installations, chemical installations, oil refinery pipelines, etc.*

Components of Flange Insulation Gasket Kit:
1) Insulated gasket with Seals.
2) Insulated Sleeves (Tubes)
3) Insulated Washers

Insulation Material Properties (Gasket, Washer and Sleeve) : G10			
Sr. No.	**Description**	**Units**	**Observed Values**
1	Specific Gravity	-	1.9 - 2.0
2	Water Absorption	mg	≤ 20
2	Tensile Strength @ 23ºC	Mpa	≥ 250
3	Cross Breaking Strength @ 23ºC	Mpa	≥ 350
4	Cross Breaking Strength @ 150ºC	Mpa	≥175
5	Compression Strength	Mpa	≥ 400
6	IZOD Impact Strength	KJ/m2	≥ 34
7	Shearing Strength	Mpa	≥ 110
8	Splitting Resistance	KN	≥ 3
7	Di-electric Strength - Flatwise	Kv/mm	≥ 12
8	Di-electric Strength - Edge Wise	Kv/mm	≥ 40
9	Insulation Resistance	M.Ohms	$\geq 10^4$

Sealing Elements (used in Gasket)			
Sr. No.	**Seal Material**	**Minimum Operating Temperature**	**Maximum Operating Temperature**
1	PTFE	- 250 ºC	200 ºC

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PRODUCT INFORMATION SHEET

COTTON PHENLOIC RESIN LAMINATE

PFCC 202/ NEMA CE

Laminated Sheet made from layers of fine cotton fabric, treated with Phenolic Resin. The material technical and structural applications.
It has a good wear resistance, low moisture absorption and good mechanical strength.

Due to its good mechanical strength and impact resistance it is ideal for use in structural supports. The material is equipped with good sliding properties and is resistant against solvents, oils, fuels, etc.

Sr. No.	Description	Units	Values
1	Specific Gravity	-	1.35
2	Water Absorption	%	< 1
3	Tensile Strength @ 23ºC	Mpa	≥ 65
4	Flexural Strength @ 23ºC	Mpa	≥ 115
5	Compression Strength	Mpa	≥ 200
6	Charpy Impact Strength	KJ/m2	≥ 10
7	Shearing strength	Mpa	≥ 45
8	Breakdown Voltage	Kv/mm	≥ 5
9	Insulation Resistance	M-Ohms	> 80
10	Comparative Tracking Index CTI	Volts	> 100
11	Thermal Endurance	TI	120 ºC

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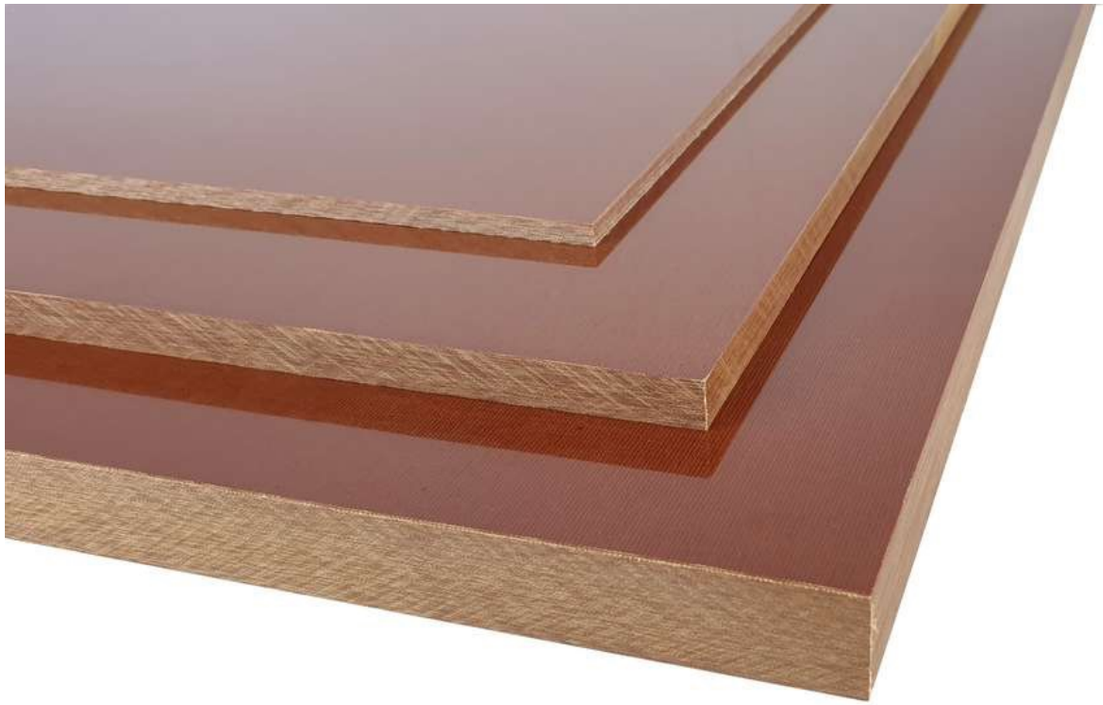

PRODUCT INFORMATION SHEET

COTTON PHENLOIC RESIN LAMINATE

PFCC 201/ NEMA C

Laminated Sheet made from layers of fine cotton fabric, treated with Phenolic Resin. The material technical and structural applications.
It has a good wear resistance, low moisture absorption and good mechanical strength.

Due to its good mechanical strength and impact resistance it is ideal for use in structural supports. The material is equipped with good sliding properties and is resistant against solvents, oils, fuels, etc.

Sr. No.	Description	Units	Values
1	Specific Gravity	-	1.35
2	Water Absorption	%	< 1
3	Tensile Strength @ 23ºC	Mpa	≥ 65
4	Flexural Strength @ 23ºC	Mpa	≥ 130
5	Compression Strength	Mpa	≥ 200
6	Charpy Impact Strength	KJ/m2	≥ 10
7	Shearing strength	Mpa	≥ 45
8	Breakdown Voltage	Kv/mm	≥ 5
9	Insulation Resistance	M-Ohms	> 80
10	Comparative Tracking Index CTI	Volts	> 100
11	Thermal Endurance	TI	120 ºC

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PRODUCT INFORMATION SHEET

GLASS BANDING TAPE

RESIN GLASS BANDING TAPE

Tape is made of twisted glass yarns, pre-impregnated with an oil compatible and thermo-setting type polyester resin

Banding Tapes when cured at specific time and specific temperature forms the rigid rings, which when applied under tension keeps parts of the machine intact.

Application :

Used for banding rotors and armatures of Traction machine, D.C. machines, Core banding in oil filled transformers, etc.

Sr. No.	Description	Units	Observed Values
1	Thermal Class	Class	C
2	Temperature index	ºC	200
3	Thickness	mm	0.30 (approx)
4	Width tolerance	%	± 10
5	No of yarn	per cm.	30 ± 1
6	Weight per 100 mtr of 10 mm width	Kg.	0.56 (approx)
7	Breaking strength B-stage	Kg./cm	> 200
8	Breaking strength C-stage (5 hrs, 150ºC)	Kg./cm	> 250
9	Resin content	%	24 to 30
10	Curing cycle	-	5 hrs at 150oC
11	Arc resistance	sec.	> 120
12	Elongation at break	%	1– 3
13	Modulus of elasticity at room temp.	N/mm2	60,000
14	Comparative tracking index	No.	600
15	Tensile Strength	N/cm	> 2500
16	Modulus of Elasticity	N/mm2	> 50000
17	Cross Breaking Strength @ RT	N/mm2	> 900
18	Volatile Content	%	< 3
19	Di-electric strength	Kv/mm	> 15
20	Shelf Life	-	12 months @ 15ºC

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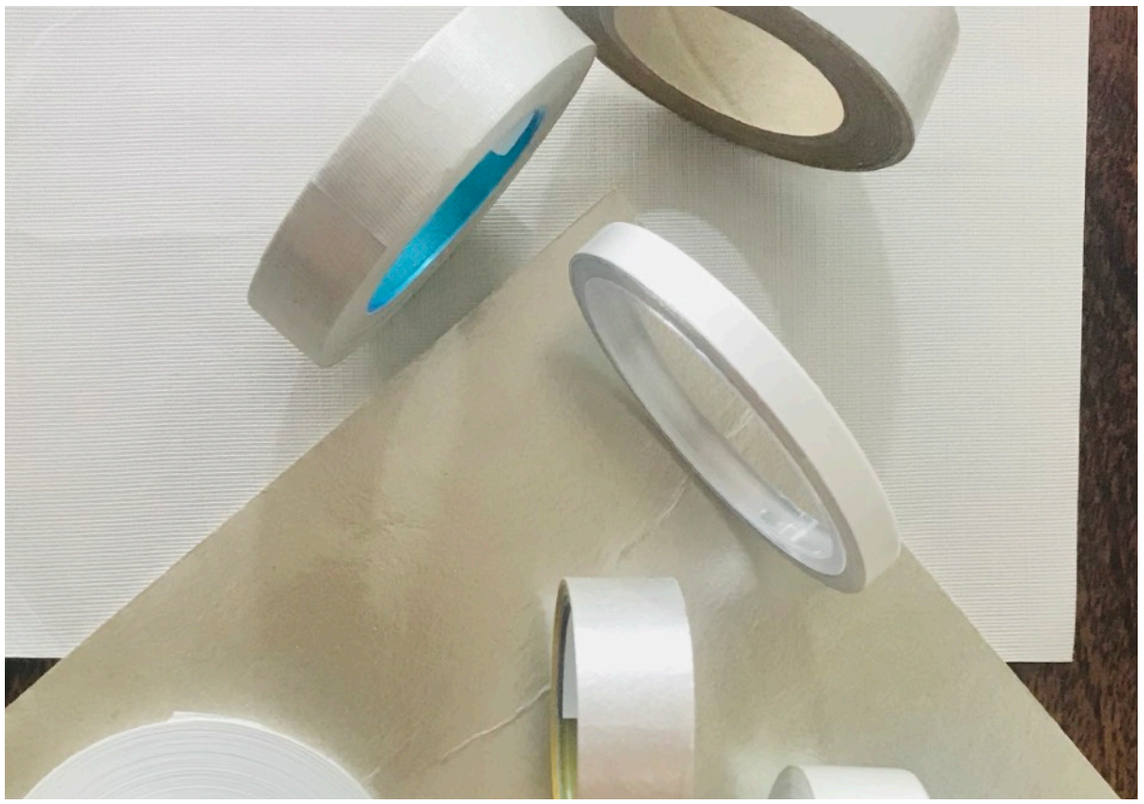

PRODUCT INFORMATION SHEET

MICA GLASS FABRIC TAPE

Mica Glass Fabric Tape is made of Muscovite mica paper with fibre glass cloth and bonded with silicone resin.

Application: Used in coil insulation, armature coils of high voltage motors and generators. (Temp range- 200°C)

Availability: Tape roll, width: 15 to 50 mm, length: 30 to 100 meter.

Sr. No.	Size, Term	Unit	Values	Test Method
1	Thickness	mm	0.12 ± 0.02	IEC 371 -2, section -2 (i)
2	Width	mm	15 ± 5 %	
3	Composition	g/m²		IEC 371 -2, section -6 (ii)
	Glass Fabric (iii)		32 ± 3	
	Mica Paper		113 ± 8	
	Binder (iv)		12 ± 4	
	Aromatic polymide Fiber		7 ± 3	IEC 371 -2, section -6.4
4	Mass per unit area	g/m²	164 ± 10	IEC 371 -2, section -6.2
5	Thread Count (Glass fabric)	cm⁻¹	±	DIN 53853
	Warp		24 ± 2	
	Weft		11 ± 1	
6	Rupture strength per 1 cm of tape width in machine direction	N	≥ 100	IEC 371 -2, section -7
7	Edge tearing strength	N	≥ 12	IEC 394 -2, section -8
8	Edge tearing strength	N/m	≥ 65	IEC 371 -2, section -10
9	Bending stiffness in (v) machine direction			
10	Layer bonding	N/cm²		GMN 14338
	Individual values		≥ 0.70	
	Average value		≥ 1.0	
11	Permeability to air Individual values	s/100 ml	≤ 3500	ISO 3687 (ASTM D 726)
12	Storage life from delivery date in original container (vi)	Months		
	At room temperature (≤ 25° C)		12	
	At .....5° C		24	

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PRODUCT INFORMATION SHEET

KAPTON® TAPE

AUTO ADHESIVE TAPE

Kapton® Tapes are made of Kapton® Fils backed by Silicon Adhesives, providing them excellent Insulation properties, high temperature resistant and excellent solvent resistant.

Application:

Used as an Insulation and Protection Layer on Electrostatic Sensitive and Fragile Components.

Sr. No.	Description	Units	Observed Values
1	Temperature index	-	upto 200ºC
2	Thickness	mm	0.07 ±0.01
3	Elongation at Break	%	≥ 30
4	Break Down Volatge	Kv	≥ 5
5	Breaking Strength	N/cm width	≥ 40
6	Adhesion Strength	N/cm	2 min.

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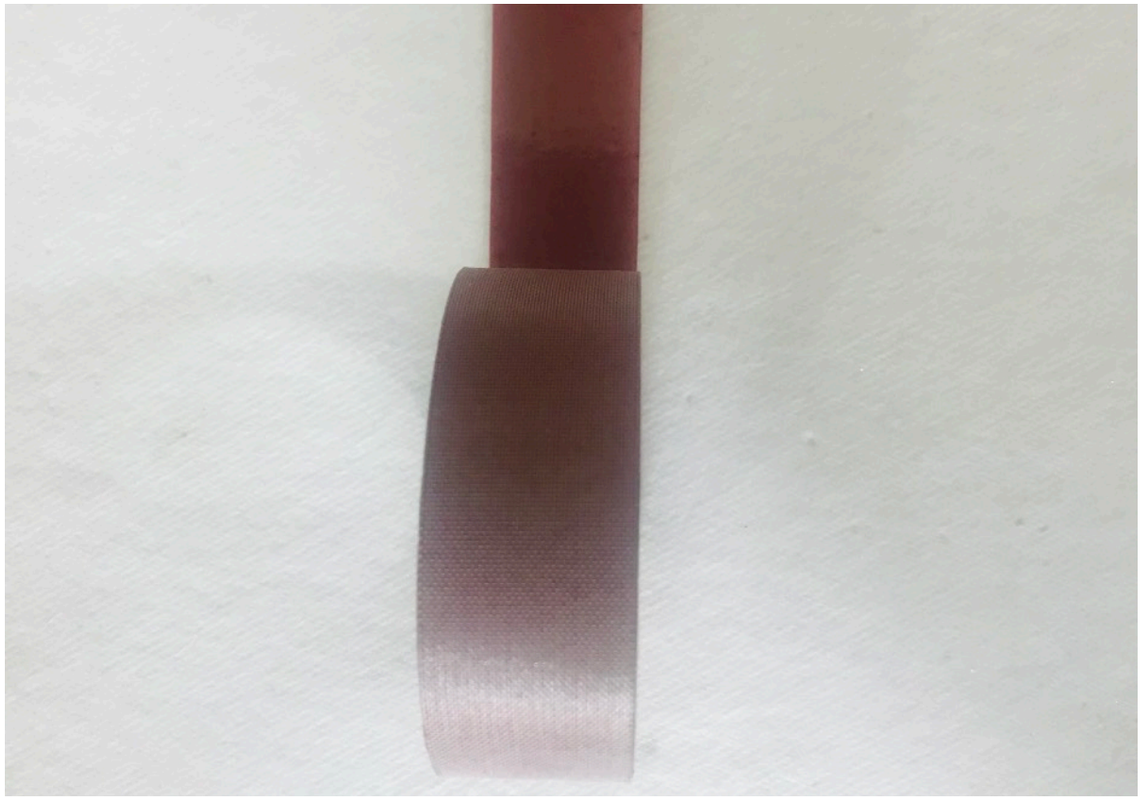

PRODUCT INFORMATION SHEET

POLYESTER GLASS SILK TAPE

Polyester Glass Silk Tape is a thermo-shrinkable tape.
During impregnation the resin penetrates through the layer of Polyester Glass Silk Tape into the main insulation. During curing process Polyester Glass Silk Tape shrink under temperature and prevent a drain out of resin and give some pressure to main insulation.

Polyester Glass Silk Tape used as a final layer above porous tapes in the production of VPI insulation winding.

Application :
Used in Core Layer and final Insulation of Coils and oil-filled transformers.

Sr. No.	Size, Term	Unit	Values	Test Method
1	Thickness	mm	0.09 ± 0.01	IEC 60626-2 Cl NO. 2
2	Total substance	g/m²	86 ± 9	IEC 60626-2 Cl NO. 5
3	Glass polyester fabric	g/m²	25 ± 3	IEC 60626-2 Cl no. 5 * Dissolve resin in acetone
4	PET film	g/m²	27 ± 2	IEC 60626-2 Cl no. 5 * Dissolve resin in acetone
5	Resin content	g/m²	34 ± 4	IEC 60626-2 Cl no. 5 * Dissolve resin in acetone
6	Tensile strength	N/10 mm	≥ 60	IEC 60626-2 Clause NO. 4
7	Elongation	%	≥ 20	IEC 60626-2 Clause NO. 4
8	Edge Tearing	N	≥ 180	IEC 60626-2 Cl NO. 6
9	Breakdown Voltage	kV	≥ 3	IEC 60626-2 Cl NO. 9
10	Thermal shrinkage after 2h at 75˚ /120˚ C/ 150˚ C	%	≤ 1/ ≥ 8/≥ 14	IS 5351 APPENDIX A7
11	Colour	visual	Ferric Oxide (Brown)	visual
12	Width	mm	20 ± 1	vernier caliper
13	Winding		Fabric up	visual
14	Colour Leaching Test		No colour of the PGC tape should leach into the VPI resin	

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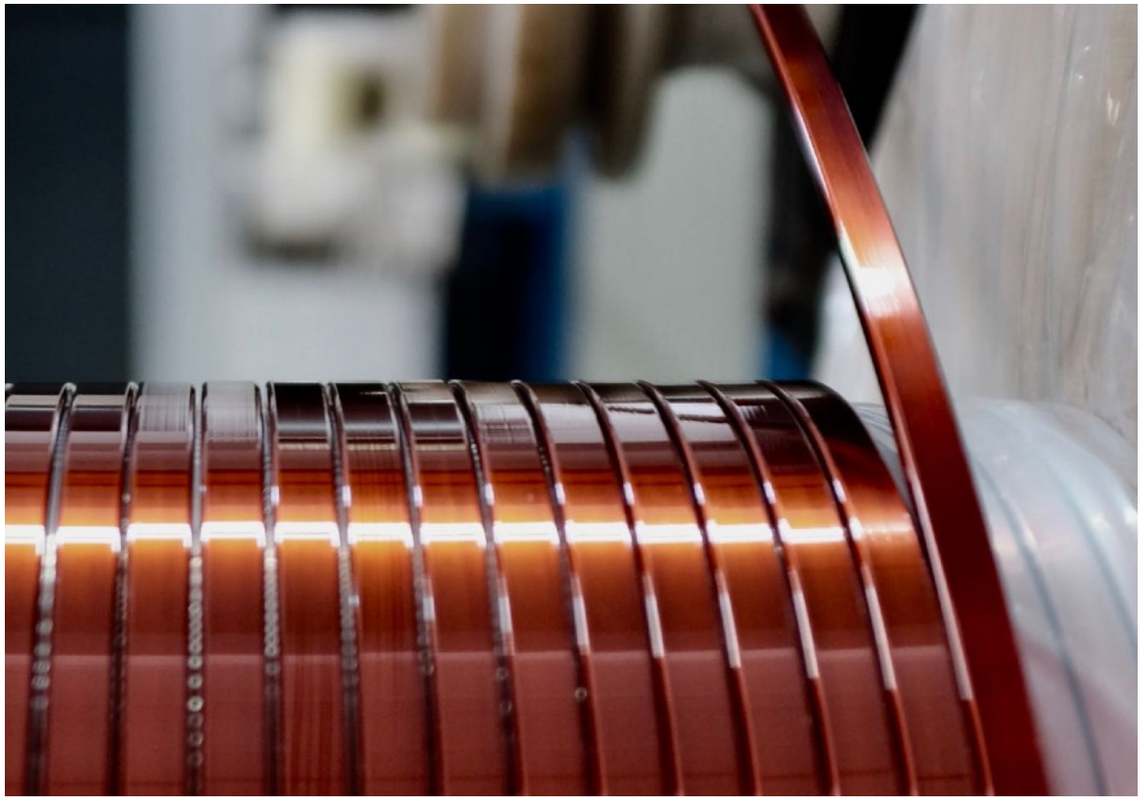

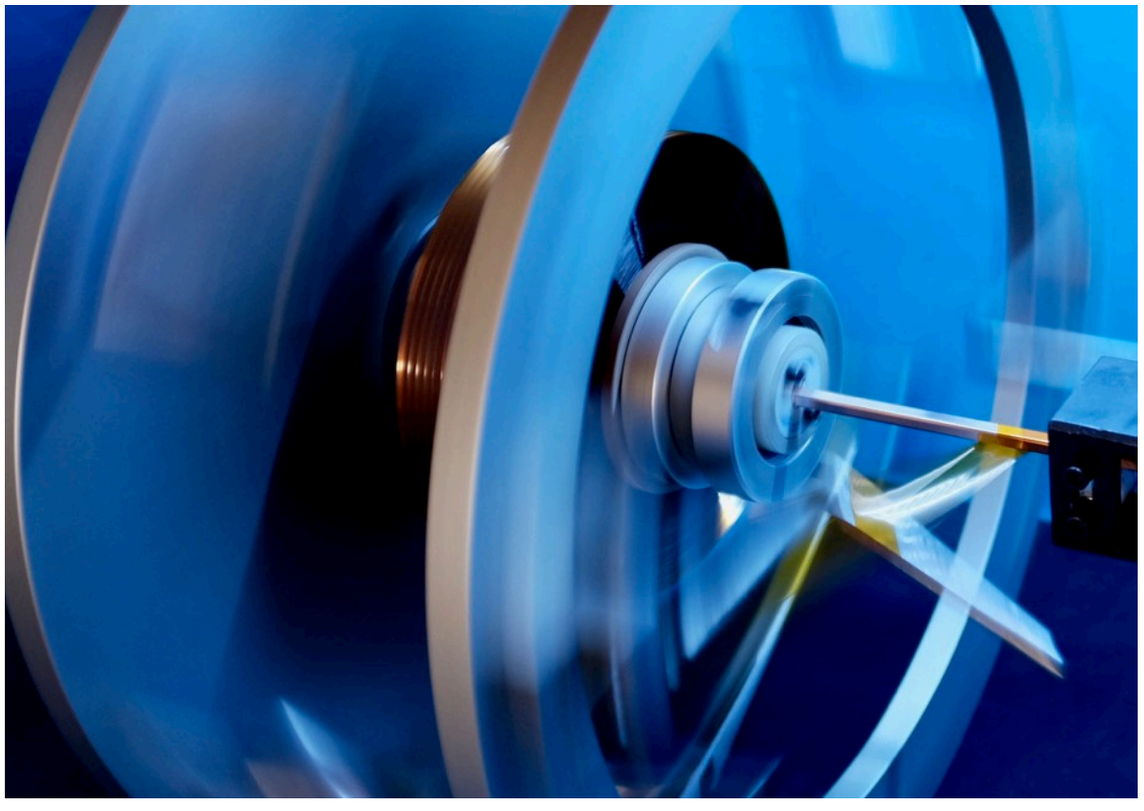

PRODUCT INFORMATION SHEET

WINDING WIRES FLAT

Manufacturers of large electric machines rely on insulated round and flat wires made of copper and aluminium. These wires are used in the production of windings for motors, generators and transformers.
We offer a wide range of different insulation build-up and thus support the specific requirements of our customers.
In order to meet the increased demand for innovative products, flat wires with new types of insulation such as high-performance polymers have been developed.

CORONA RESISTANT KAPTON® POLYIMIDE COPPER WIRE :

Polyimide film with corona/partial discharge resistant property for AC traction motors. Additionally the film has better thermal conducting properties compared to standard polyimide film. Enhanced thermal transfer properties makes it ideally suited for variable frequency drives.

KAPTON® POLYIMIDE WIRE :

Kapton® polyimide film with FEP adhesive wrapped on flat copper wire to achieve required insulation thickness. The film is bonded to copper which is cleaned for better adhesion, by high frequency induction heating combined by radiant heating to obtain a void free and uniform insulation that can withstand high operating temperature for continuous duty application. The film covered wire meets all requirements of a traction duty motor, harsh environment conditions and mechanical stresses like vibrations.

Benefits:

- Superior ability to withstand cyclic TEAM (thermal, electrical, ambient and mechanical) stresses.
- Voltage endurance requirement at high frequency.
- Operational reliability under harsh environmental conditions of vibration, shock, humidity, ambient temperature etc.
- Suitable for winding methods for high space factor.

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PRODUCT INFORMATION SHEET

Micaply™

INSULATION TAPPED COPPER / ALUMINIUM CONDUCTORS

Name	Tapped Copper / Aluminium Conductors
Type	Round / Rectangular
Conductor	Copper / Aluminium
Insulation Material	Electric Grade Insulating Kraft Paper / Glass Mica / Polyester Film / Polyimide Film
Application	Traction Motors / Switch Gears / Transformers (Dry Tye or Oil filled)

ELECTRICAL GRADE PAPER COVERED

Type	Base Metal	Diameter (mm)	Width (mm)	Thickness (mm)	Insulation Thickness (mm)
Round	Copper	1 to 6	-	-	0.20 to 0.50
Rectangular	Copper	-	5 to 20	2 to 5	0.20 to 1.50
Round	Aluminium	1 to 6	-	-	0.20 to 0.50
Rectangular	Aluminium	-	5 to 20	2 to 5	0.20 to 1.50
Insulation Grade	Electrical Grade Insulating Kraft Paper				
Thermal Class	105 °C				

GLASS MICA COVERED

Type	Base Metal	Diameter (mm)	Width (mm)	Thickness (mm)	Insulation Thickness (mm)
Round	Copper	2 to 6	-	-	As required
Rectangular	Copper	-	5 to 12	2 to 5	As required
Round	Aluminium	2 to 6	-	-	As required
Rectangular	Aluminium	-	5 to 12	5 to 12	As required
Insulation Grade	Glass Mica				
Thermal Class	200 °C				

POLYESTER FILM COVERED

Type	Base Metal	Diameter (mm)	Width (mm)	Thickness (mm)	Insulation Thickness (mm)
Round	Copper	2 to 8	-	-	0.20 to 0.50
Rectangular	Copper	-	5 to 20	2 to 5	0.20 to 0.51
Round	Aluminium	2 to 8	-	-	0.20 to 0.52
Rectangular	Aluminium	-	5 to 20	5 to 12	0.20 to 0.53
Insulation Grade	Polyester Film				
Thermal Class	155 °C				

AROMATIC POLYIMIDE FILM COVERED

Type	Base Metal	Diameter (mm)	Width (mm)	Thickness (mm)	Insulation Thickness (mm)
Round	Copper	2 to 5	-	-	As required
Rectangular	Copper	-	5 to 10	2 to 5	As required
Round	Aluminium	2 to 5	-	-	As required
Rectangular	Aluminium	-	5 to 10	5 to 12	As required
Insulation Grade	Aromatic Polyimide Film				
Thermal Class	240 °C				

CREPE PAPER COVERED

Type	Base Metal	Diameter (mm)	Width (mm)	Thickness (mm)	Insulation Thickness (mm)
Round	Copper	2 to 5			As required
Round	Aluminium	2 to 5			As required
Insulation Grade	Insulating Kraft Paper / Crepe Paper				
Thermal Class	105 °C				

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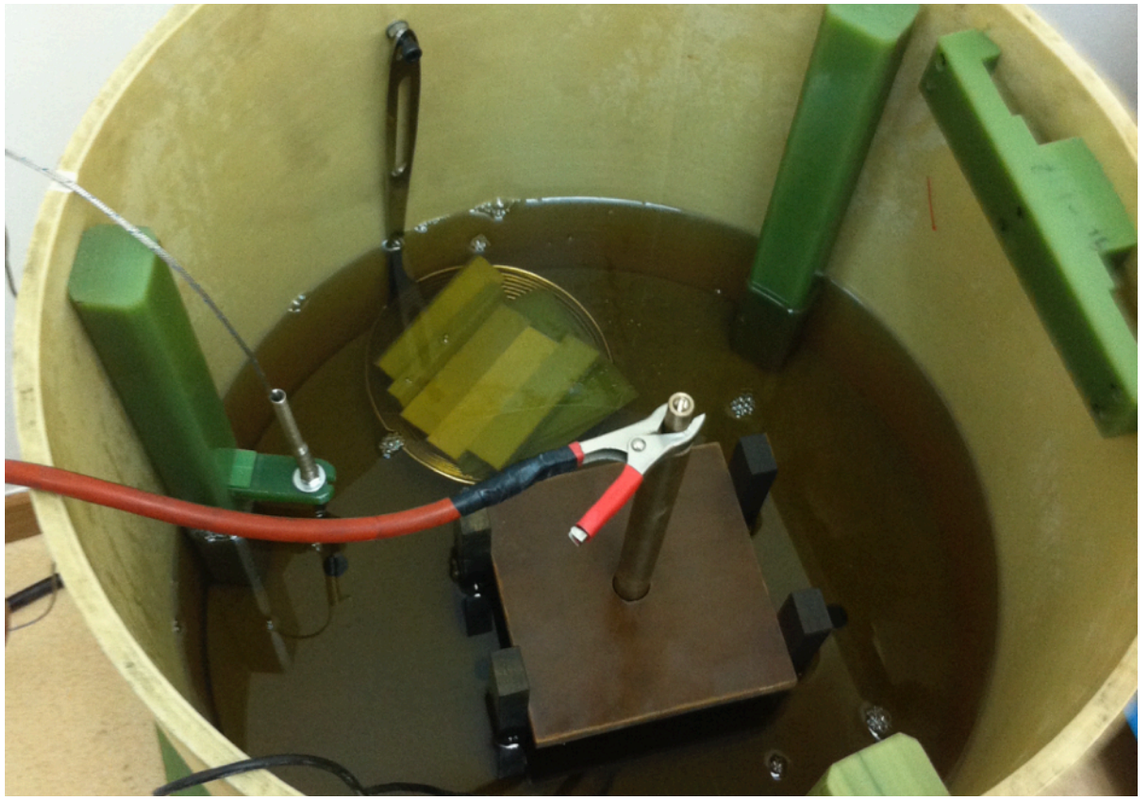

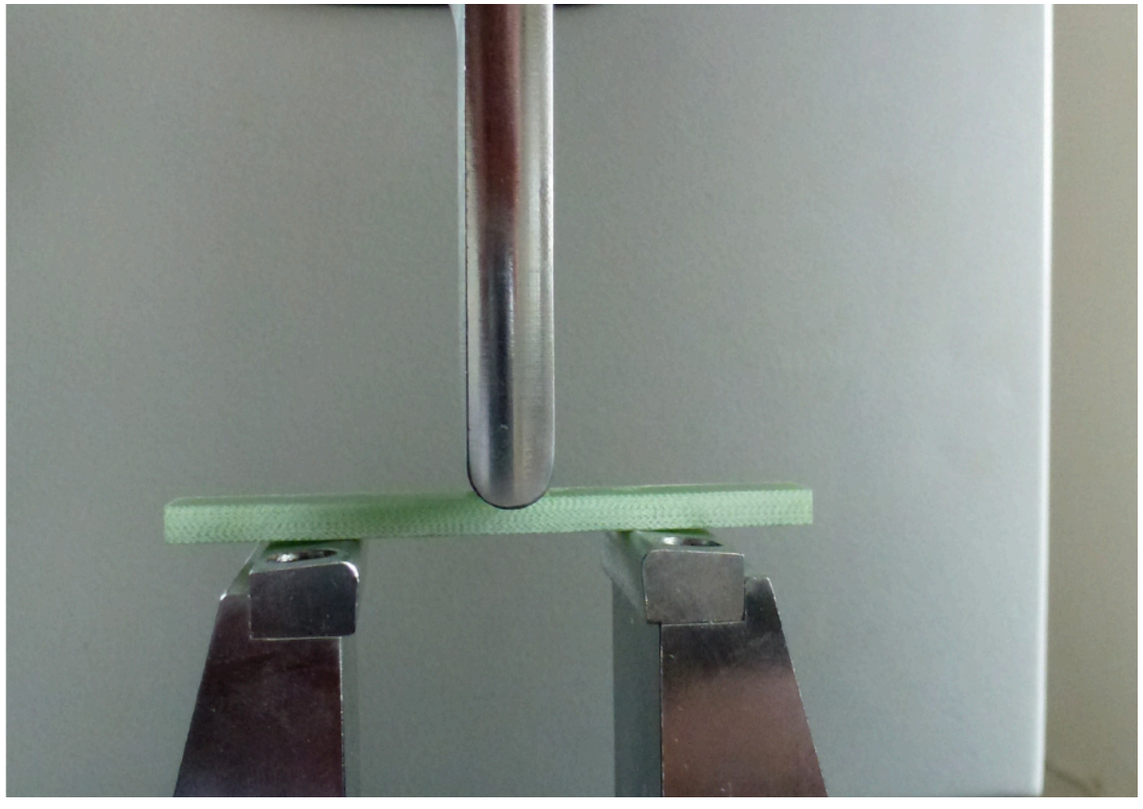

IN-HOUSE TESTING FACILITIES

MECHANICAL TESTING
Tensile Testing
Flexural Strength @ room temperature
Flexural Strength @ 150°C / 180°C / 200°C temperature
Impact Strength Testing
Compressive Strength Testing
Heat Deflection Temperature Testing
Shear Strength Testing
Splitting Testing

ELECTRICAL TESTING
Insulation Resistance Testing
Break-down at High Voltage Testing in Air
Di-Electric Strength in Oil
Dry Arc Resistance Testing
Comparative Tracking index (CTI)

FIRE TESTING
Toxicity Testing
Smoke Density Testing
Flammability Testing
Limiting Oxygen Index
Resistance to Spread of Flame Testing

OTHERS
Water Resistance
Glass Content Testing
Density

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