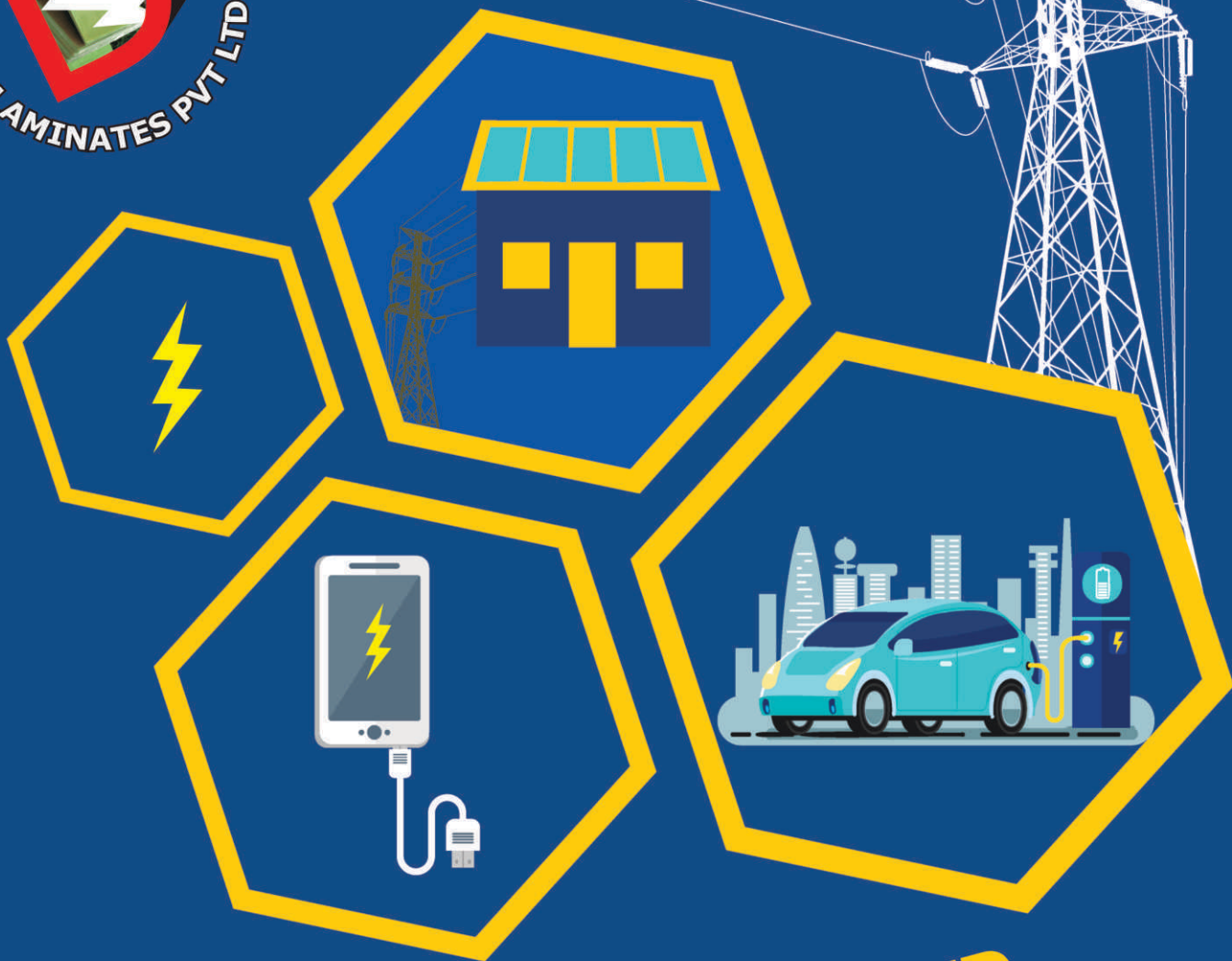




DHAN LAMINATES PVT LTD
A Leader in Laminates & PCB's

⚡ THE FUTURE OF INSULATION ⚡

ABOUT THE COMPANY

Incepted in 2007 we have established ourselves as one of the Largest manufacturers of Fiber Glass Epoxy Laminates in India. Our strength lies in delivering quality electrical insulation from our laminates in various industry segments thereby making us the pioneer in Electrical Insulation from Glass Epoxy Laminate.

Our Aim is to provide best in class product meeting and exceeding the Industry Standard with directly comparable results.

At Dhan Laminates Quality is not a word it is the Hallmark of our Services.



Machinery and Equipment

Sl. No.	Machinery Description	Capacity	Number
1	HYDRAULIC MULTI DAYLIGHT PRESS MACHINE	800 TON	1
2	HYDRAULIC MULTI DAYLIGHT PRESS MACHINE	400 TON	1
3	HYDRAULIC PRESS MACHINE	250 TON	1
4	8 FT LATHE	8 FT	2
5	CALIBRATION MACHINE	100-1600 MM	1
6	DRILLING MACHINE	0.5MM-50 MM	2
7	DG ELECTRIC GENERATOR SET	260 KVA	1
8	UNIVERSAL TESTING MACHINE	60 TON	1
9	HIGH VOLTAGE DIELECTRIC BREAKDOWN TESTING MACHINE	100 KV	1

DIFFERENCE BETWEEN FR4 & G10 :-

G10/FR4 has extremely high mechanical strength, good dielectric loss properties, and good electric strength properties, both wet and dry. The main difference between NEMA Grades G10 and Fr4 is that FR4 is a fire retardant grade of G10. Therefore, FR4 can be safely substituted where G10 is called out, while G10 can never be substituted where FR4 is called for.

DIFFERENCE BETWEEN FR5 & G11 :-

NEMA grades G11 and FR5 Glass-Cloth Reinforced Epoxy - natural color is typically yellow green to amber. This grade is similar to G10/FR4 with the addition of a higher operating temperature and some improved mechanical strength at elevated temperatures. The main difference between NEMA Grades G11 and FR5 is that FR5 is a fire retardant grade of G11. Therefore, FR5 can be safely substituted when G11 is called for while G11 can never be substituted where FR5 is called for.



PRODUCT PROPERTIES & SPECIFICATIONS



HGW2372.1
EP GC 202
EP 2
FR4
EPOXY GLASS FABRIC
INSULATION CLASS-F



HGW2372.2
EP GC 204
EP 6
FR5
EPOXY GLASS FABRIC
INSULATION CLASS-H



HGW2372
EP GC 201
EP 1
G-10
EPOXY GLASS FABRIC
INSULATION CLASS-F



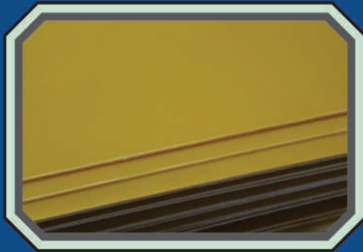
HGW2372.4
EP GC 203
EP 3
G-11
EPOXY GLASS FABRIC
INSULATION CLASS-H

AVAILABLE THICKNESS : 0.15 MM ~ 100 MM

SIZE : 610 MM x 1020 MM, 1020 MM x 1020 MM, 1030 MM x 1230 MM

MECHANICAL PROPERTIES	UNIT	HGW2372 EP GC 201 EP 1 G-10	HGW2372.1 EP GC 202 EP 2 FR4	HGW2372.4 EP GC 203 EP 3 G-11	HGW2372.2 EP GC 204 EP 6 FR5
Flexural Strength	Mpa	530	550	580	580
Tensile Strength	Mpa	300	330	380	380
Shear Strength	Mpa	140	140	140	140
Modulus Of Elasticity	Mpa	24000	24000	24000	24000
Charpy Impact Strength	KJ/m2	225	235	240	240
Izod Impact Strength	KJ/m2	230	240	250	250
Compressive Strength	Mpa	405	440	470	470
ELECTRICAL PROPERTIES					
Electrical Strength Parallel to Lamination (Break Down Voltage)	KV	>50	>50	>50	>50
Insulation Resistance	MQ	5x10	5x10	5x10	5x10
Dissipation Factor At 1 Mzh	-	5.2	5.2	5.2	5.2
Comparative Tracking Index	CTI	350	350	400	400
PHYSICAL PROPERTIES					
Density	G/cm3	1.85 - 2.00	1.85 - 2.00	1.85 - 2.00	1.85 - 2.00
Water Absorption at 6mm	%	0.20	0.20	0.15	0.20
Temperature index	TI/C	180	180	200	220
Flammability	UL94	HB	V0	HB	V0

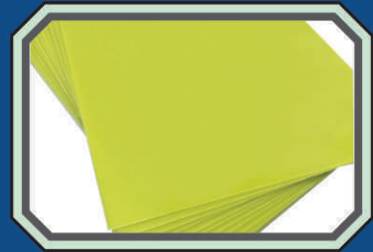
OUR PRODUCTS



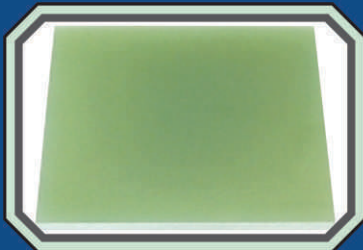
Glass Epoxy Laminates
(NEMA L1/IEC/ 60893/ IS 10192)



Glass Epoxy Laminates
(NEMA G-10 / EPGC 201)



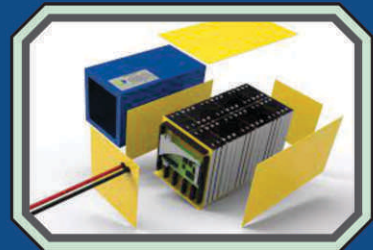
Glass Epoxy Laminates
(NEMA FR-4 / EPGC 202)



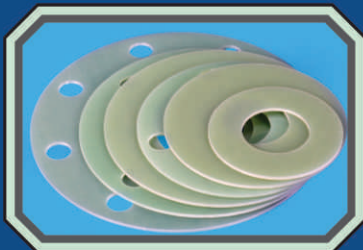
Glass Epoxy Laminates
(NEMA G-11 / EPGC 203)



Glass Epoxy Laminates
(NEMA FR-5 / EPGC 204)



Insulating Sheet for
Battery Pack



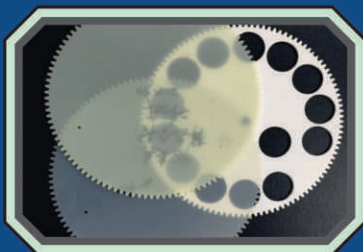
Gasket Washers



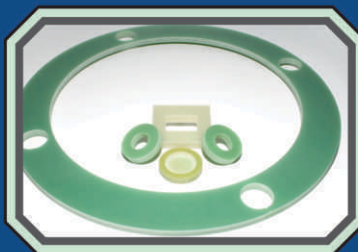
Glass Epoxy Washers



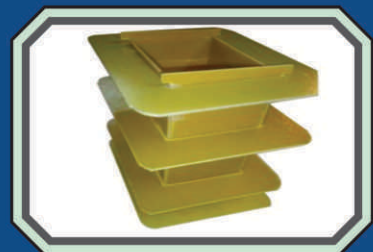
Glass Epoxy Wedges



Glass Epoxy Carriers



Glass Epoxy Ring



Bobbins for transformers

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