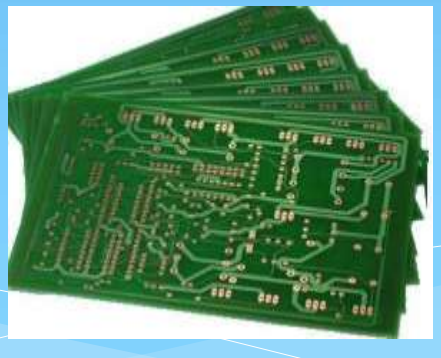
DHAN LAMINATES PVT LTD

A LEADER IN LAMINATES & PCB'S



A LEADER IN LAMINATES & PCB'S

COMPANYPROFILE

DhanLaminatesPvtLtd.isanindependentlegalentity.

The company was established in September 2007 with Trading ofCopper Clad Laminates and Unclad Laminates.

- **The company is a privately owned high-new-tech enterprise composed ofR&D, Production, Sales & Services.**
- **OurMainProductsincludeNEMAFR-4/G10andNEMAFR5/G-11Laminate Sheetswithanon-goingexpansiontomanufactureGlassEpoxytubesandRods.**
- **After the Directors completed more than a decade experience in Imports ofFibre Glass Epoxy Laminated Sheets, In the year 2011– 2012we started the production ofCopper Clad Laminate and Un-Clads Laminates.**

NowintheYear2018-2019

DhanLaminatesenteredinBarePCBManufacturingandestablishedaState oftheArt manufacturing facility in Kolkata (West Bengal) using most modern equipment's and technologies.

We are committed to achieve the same level which we achieved in Laminate manufacturingusingourknowledge,dedication&focustowardsQuality &Customer Service.

A LEADER IN LAMINATES & PCB'S

BriefIntroductionofKeyManagement

DIRECTORS

1. **Mr. ALOKE PACHISIA : A Hardcore Technocommercial individual. Commited to competete abroad manufacturers ofLaminates & PCBs by providing World Class Quality & Service to Indian Customers on competitive prices.**

2. **Mrs.AARTIPACHISIA:AQuality&SystemorientedLady,Providing her services to the Organization for Human Resource, 5S & Structuring of the Organization.**

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BriefIntroductionofKey Management

KEYMANAGERIALPERSONS

1. **Mr. VARUN PACHISIA : Handeling entire Commercial & Finance related activities ofthe Organization.**

UNIT-I(LAMINATEDIVISION)

1. Mr.VISHESHPACHISIA:HandelingProduction&Qualityrelated activities ofLaminate Division.

UNIT-II(PCBDIVISION)

1. Mr. S.P. SINGH : Business Unit Head ofPCB Division having Hardcore PCB manufacturing experience ofover 29 Years in Various Top Indian PCB Manufacturers.

2. Mr. P.N. BARMAN : Handeling entire Technical & Maintenance activities ofPCB Division. Having more than 35 Years rich experience ofworking in various PCB Manufacturing Units in India.

ALEADERINLAMINATES&PCB'S

OurVision&Principle

Since the establishmentof Dhan LaminatesPvt. Ltd., We have abided by the philosophy of 'WORK IS WORSHIP'. We have developed a highly qualified management and technicalteam.Inadditionthereisaconstantendeavour in the pursuit of innovation of technology and product.

OurMission

Our mission is to be the leader in this line of business by providing maximum customer satisfaction through our commitmenttoquality,deliveryandservice.Ourfocusis on continuous Improvement, method refinement and complete customer satisfaction.

ALEADERINLAMINATES&PCB'S

QUALITYSYSTEM

The plant is incorporated with ISO9001:2015 certified Quality Management System and using most stable and modern processes and process control techniques and reliable raw material. We are committed to provide the best**ElectricalInsulation**and**ElectronicsInterconnection** to fulfill the customer requirements.

ALEADERINLAMINATES&PCB'S

QualityObjectives

- Employmentofskilled manpower
- TomaintainZerodefecttolerancelevel
- ImplementationofProcessControland Documentation
- Enhancementofcustomersatisfactionlevel
- Togivebettertechnicalsupporttocustomertofull satisfaction

ALEADERINLAMINATES&PCB'S

Unclad&CopperCladLaminates(LaminateDivision)

Our Laminate Division is well equipped with Modern Equipments required for making Speciality Laminates. Speciality FR4 & FR5 Unclad Laminates, we make are used for Electrical Insullations in various Electrical Equipments. Also it is used for other various applications.AndtheCopperCladLaminates,Wemake is used as basic Raw Material for making BarePrinted CircuitBoards (PCBs)

LEADER IN LAMINATES & PCB'S

FACILITY

ListofMachines& Equipment

- **CuttingSection:**
  1. HydraulicShearing Machines
  2. PaddleShearingMachines
  3. RollerCuttingMachines

- **AssemblingSection:**
  1. AutomaticConveyorAssembler.
  2. Manual AssemblingTrays.

- **PressSection:**
  1. HydraulicWithAuto LoaderPressMachine-2Units
  2. HydraulicWithManualLoadingPressMachine-2Units

- **SeparationSheets:**
  1. Threesetsforeach machine.

LEADER IN LAMINATES & PCB'S

ProductionCapacity&TechnicalCapabilities

CopperCladLaminates :20000Sheets/Month
UncladGlassEpoxySheet :100MT./ Month

TechnicalSpecifications:

SheetSizes :1220 x1020 mm,1220x915 mm,
1020x610mm

Grade (CCL) :CEM-3&FR4inCopperClad(UV&NonUV)

Grade (Unclad) :Class‘F’InsulationFR4(UV)&FR4 (Natural)
AndClass‘H’InsulationFR5(HighTg)

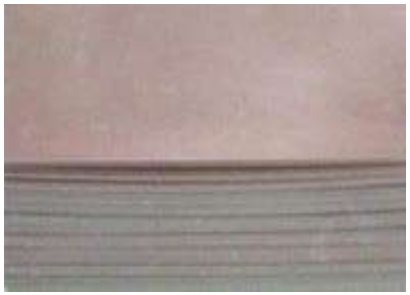
LEADERINLAMINATES&PCB'S

CopperClad Laminates

ColoursAvailable

GradeCEM-3(NONUV)

- **THICKNESS** :0.3~3.2MM(Standard thickness 0.8,1.0,1.2,1.6,2MM)
- **COPPERFOIL** :18µ,25µ,35µ,70µ,105µ
- **STANDARD SHEETSIZES** :24"X40"/36"X48"/40"X48"
- **COLOURS** :PINK, GREY



PINK

GREY

LEADER IN LAMINATES & PCB'S

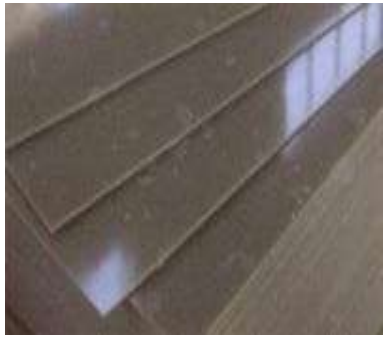
GradeFR-4

- **UVBLOCKED** :YELLOWBASE
- **NONUV** :NATURALBASE
- **THICKNESS** :0.3~3.2MM (Standardthickness 0.8,1.0,1.2,1.6,2MM)
- **COPPERFOIL** :18µ,25µ,35µ,70µ, 105µ
- **STANDARD SHEETSIZES** :24"X40"/36" X48"/ 40"X 48"
- **COLOURS** :YELLOW(UV)COLOUR, NATURAL(NON-UV) COLOUR

COLOURS AVAILABLE

UV

UV



NON UV

NON UV

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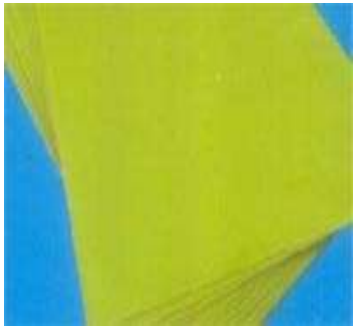
GlassFiberEpoxyUncladLaminateGradeFR-4

* **LENGTHANDWIDTH TOLERANCE**	:±25MM
* **AVAILABLETHICKNESS**	:0.15MM~100MM
* **THICKNESSVARIATION**	:Upto5 MM ±0.10MM,Above5MM ±0.50MM
* **SIZE**	:610MMx1020MM,1020MM x1020MM, 1030MM x1230 MM
* **COLOURS**	:LemonYellow,GoldenYellow, Natural, Green
* **INSULATIONCLASS**	:'F'

ALEADERINLAMINATES&PCB'S

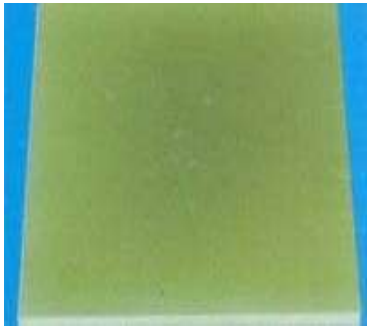
DIFFERENCEBETWEEN FR4&G10

* G10/FR4 has extremely high mechanical strength, good dielectric loss properties,and goodelectricstrengthproperties,bothwetanddry.The main difference between NEMA Grades G10 and Fr4 is that Fr4 is 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.



LEMONYELLOW

GOLFENYELLOW



FR4NATURAL

G10GREEN

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HighTGGlassFiberEpoxyUnclad Laminate

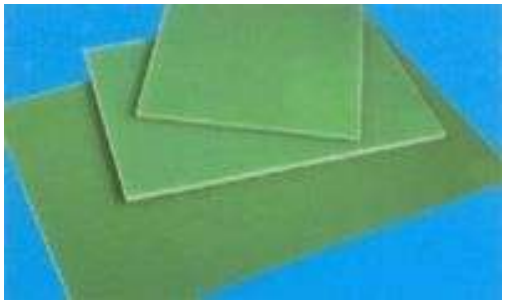
❖ **PRODUCT**	:HIGHTGGLASSFIBEREPOXY UNCLAD LAMINATE
❖ **LENGTHANDWIDTHTOLERANCE**	:±25MM
❖ **AVAILABLETHICKNESS**	:0.15MM~100MM
❖ **THICKNESSVARIATION**	:Upto5MM±0.10MM,Above5MM ±0.50MM
❖ **SIZE**	: 610MMx1020MM, 1020MMx1020MM,1030MMx1230MM
❖ **COLORS**	:DeepYellow,DeepGreen,
❖ **INSULATIONCLASS**	:'H'

ALEADERINLAMINATES&PCB'S

DIFFERENCEBETWEENFR5&G11

NEMA grades G11/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 temperatures and some improved mechanical strength at elevated temperatures. The main difference between NEMA Grades G11 and FR5 is afire retardant grade of G11.Therefore,FR5canbesafely substituted whenG11iscalledforwhileG11canneverbe substituted where FR5 is called for.

FR5DEEPYELLOW



G11DEEPGREEN

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SegmentsWhomWeCaterTo(LaminatesDivision)

* ElectricalSwitchgearIndustries
* TransformerIndustries
* ElectricalComponentManufacturers
* PCB Manufacturers
* AutomobileComponentManufacturers
* ElectronicsKitManufacturers

ALEADERINLAMINATES&PCB'S

Components

GASKETWASHERS

GLASSEPOXYWASHERS

GLASSEPOXYSPACERS

GLASSEPOXYCOMPONENTS

GLASSEPOXYWEDGES

GLASSEPOXYCOMPONENTS

DOVETAILRUNNER

DUBLESIDERUNNERWITHSPACER

ALEADERINLAMINATES&PCB'S

PRINTEDCIRCUITBOARDS(PCB DIVISION)

A printedcircuit boardmechanically supportsand electricallyconnects electronic components or electrical components using conductive tracks, pads and other features etched from one or more layers of copper laminated sheets, onto and/or between sheet layers of a non-conductive substrate.

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ListOfMachineryForSingleSided&MetalCore PCB's

Printing Area

* FullyAutomaticPrintingMachines
* SemiAutomaticPrinting Machines
* ManualPrintingStations
* SemiAutomaticOpticalGuideHoleDrilling Machines
* UVCuringMachines
* IRCuringMachines

ChemicalArea

* FullyAutomaticEtching&StrippingLine
* FullyAutomaticChemicalCleaning& ScrubbingLines

FinalFinish Area

* CNCRoutingMachine4Spindle
* CNCRoutingMachine2Spindle
* PowerPressesforPunching&Different Outer Profile
* CNCV-GroovingMachinewithJumpScore
* FullyAutomaticV-GroovingMachinewith Jump Score

SurfaceFinishArea

* AutomaticLacquerCoating Machine
* HotAirSolderLevellingMachine
* AutomaticOSPLine

FinalTesting&Inspection

* HighVoltageBBTTester

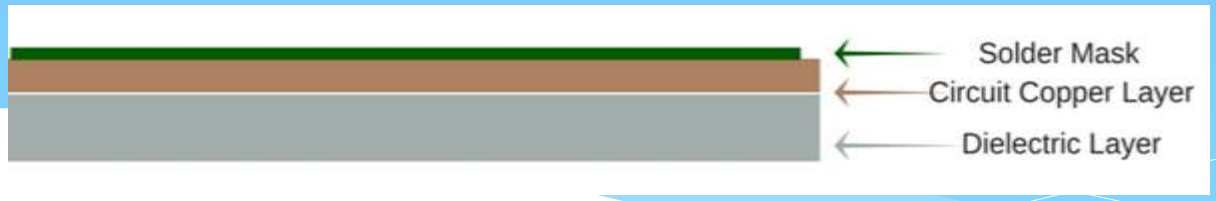
ALEADERINLAMINATES&PCB'S

SINGLESIDED

Single Sided PCBs contain only one layer of conductive material and are bestsuitedforlowdensitydesigns. Singlesided PCB'Shavebeenaround since the late 1950s and still dominate the world market in sheer piece volume.Single-Sidedprintedcircuitboardsareeasilydesignedandquickly manufactured. They serve as the most cost effective platform in the industry.

HowAreSingleSidedPCBs Made?

Onethinlayerofthermallyconductivebutelectricallyinsulatingdielectricis laminated with copper. Soldermask is usually applied on top of the copper.



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Benefits ofSingleSidedPCBs

Idealforsimplelow-densitydesigns

Lowercost,especiallyforhighvolumeorders Lower probability of manufacturing issues

Popular,common,andeasilyunderstoodbymostPCBmanufacturers

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AlthoughSingleSided PCBsare relativelysimple,theycan stillbe used in very complex devices:-

* Powersupplies
* Relays(automotiveandindustrial)
* Timingcircuits
* Sensorproducts
* LEDlighting
* Radioandstereoequipment
* Packagingequipment
* Surveillance
* Calculators
* Printers
* Coffeemakers
* Vendingmachines
* Solidstatedrives
* Camerasystems

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ListofMachinery ForDoubleSidedPCB's

CNC Area

* SixSpindleCNCDrillingMachines
* FourSpindleCNCRoutingMachine
* TwoSpindleLongFormatRouting/DrillingMachines

Imaging Area

* ScrubbingMachine
* HotRoll Dry Film Laminator
* DoubleSideDoubleDrawerAutomaticExposurefor Dry Film
* DoubleSideDoubleDrawerAutomaticExposurefor Solder Mask
* DevelopingMachinesfor DryFilm&PISMDeveloping

ChemicalArea

* ElectrolessPTHLine
* ElectroplatingLine
* ConveyrisedEtching&StrippingLine(SESLine)

SurfaceFinishArea

* HotAir Solder LevellingMachine
* AutomaticOSPLine

FinalFinishArea

* CNCRoutingMachine4 Spindle
* CNCRoutingMachine2Spindle
* CNC V-GroovingMachineJumpScore
* FullyAutomaticV-GroovingMachineJumpScore

FinalTesting&Inspection

* HighVoltageBBTTester
* Micro SectionEquipment

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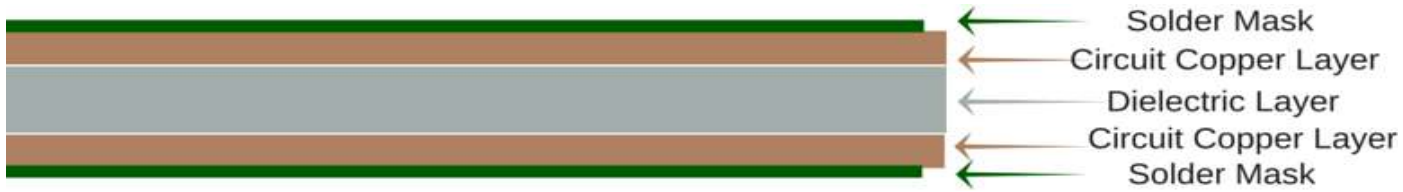
DoubleSided:-

DoubleSidedPCBs(alsoknownasDouble-Sided Plated Thru)circuitsarethegatewaytohighertechnologyapplications. They allow for closer (and perhaps more) routing traces by alternating between a top and bottom layer using vias.Today,doublesidedprintedcircuitboardtechnologyis perhaps the most popular type of PCB in the industry.



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BenefitsofDoubleSidedPCBs:

* Moreflexibilityfor designers
* Increasedcircuitdensity
* Relativelylower costs
* Intermediatelevelofcircuitcomplexity
* Reducedboardsize(whichcanreducecosts)

ApplicationsofDoubleSidedPCBs:

* Therearenearlylimitlessapplicationsforoldandnewdesigns.Fineline surface mount, ultra high copper build, high and low temperature, Solder coated, Silver, and Gold finishes are just a few examples of DSPTH applications.

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ThefollowingareapplicationsinwhichDoubleSidedPCBscanbe used:-

* Industrialcontrols
* Powersupplies
* Converters
* Control relays
* Instrumentation
* Regulators
* UPSsystems
* Powerconversion
* HVAC
* LEDlighting
* Harddrives
* Printers
* Phonesystems
* Powermonitoring
* Automotivedashboards
* Linereactors
* Testequipment
* Amplifiers
* Trafficsystems
* Vendingmachines

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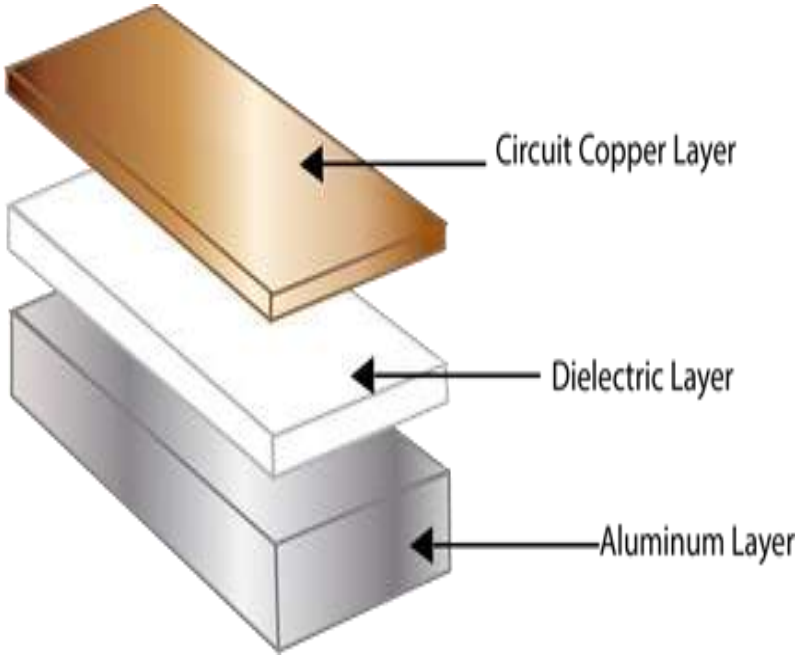
MetalCore:-

* AluminiumPrintedCircuitBoardsContainaThinLayerofThermally Conductive Dielectric Material that Transfers Heat

* Therearemanynamesfortheseproducts;Aluminumclad,Aluminium base, Metal clad Printed Circuit Board (MCPCB), Insulated Metal Substrate(IMSorIMPCB),ThermallyconductivePCBs,etc… but they all meanthesamething andperform thesame way.

HowAreAluminumPCBsMade?



* A thin layer of thermally conductive but electrically insulating dielectric is laminated between a metal base and a copper foil. The copper foil is etched into thedesiredcircuitpattern and themetalbase draws heat away from this circuit through the thin dielectric.

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BenefitsofAluminumPCBs

* Heatdissipationisdramaticallysuperiortostandard FR-4 constructions.
* Thedielectricsusedaretypically5to10timesasthermally conductiveasconventionalepoxy-glassandatenthofthe thickness
* Thermaltransferexponentiallymoreefficientthana conventional rigid PCB.
* LowercopperweightsthansuggestedbytheIPCheat-rise chartscanbeused.

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ApplicationsofAluminumPCBs

* AlthoughPowerConvertersandLEDsarethelargest users of these products, Automotive and RF companies are also looking to take advantage of the benefits of these constructions. While a single layer construction is the simplest, other configuration options are also available on request.

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MultilayerPCB:-

* **MultilayerPCBisacircuit boardthathasmorethan two layers.**
* Unlike a Double-Sided PCB which only has two conductive layers of material,all multilayer PCBsmust have*atleastthree* layersofconductive materialwhich are buried in the centre of the material.

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HowAreMultilayerPCBsMade?

* Alternating layers of prepreg and core materials are laminatedtogetherunderhightemperatureandpressure to produce Multilayer PCBs. This process ensures that air isn't trapped between layers, conductors are completely encapsulated by resin, and the adhesive that holds the layerstogetherareproperlymeltedandcured.Therange of material combinations is extensive from basic epoxy glass to exotic ceramic or Teflon materials.

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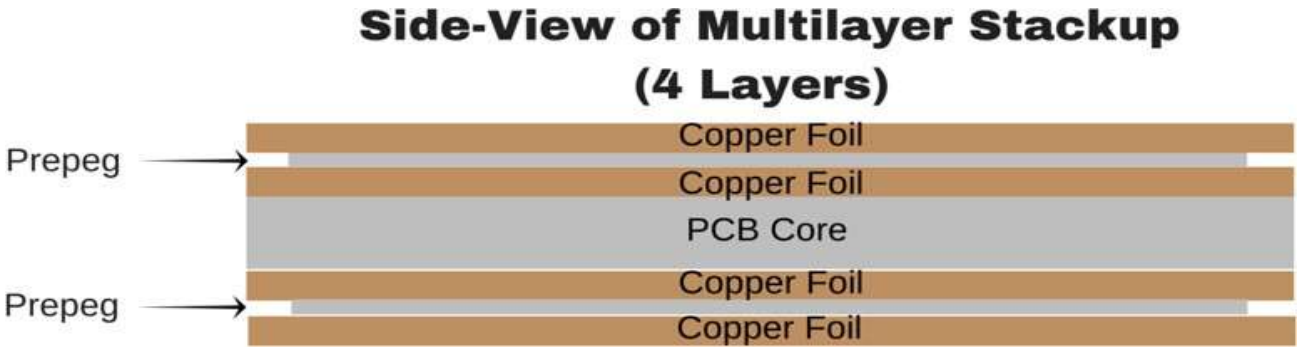
- Thefigurebelowillustratesthestackupofa4-Layer/Multilayer PCB.Prepregandcoreareessentiallythesamematerial,but prepregisnot fully cured, making it more meltable than the core. The alternating layers are then placed into a lamination press. Extremely high temperatures and pressures are applied to the stack up, causing the prepreg to "melt" and join the layers together. After cooling off, the end result is a very hard and solid multilayer board.



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BenefitsofMultilayerPCBs(comparedtosingleordouble-sidedPCBs)

* Higherassemblydensity
* Smallersize(considerablesavingsonspace)
* Increasedflexibility
* Easierincorporationcontrolledimpedancefeatures.
* EMIshielding throughcarefulplacementofpowerandgroundlayers.
* Reducestheneedforinterconnectionwiringharnesses(reduces overall weight)

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ApplicationsofMultilayerPCBs

Whiletheweightandspacebenefitsofmultilayer PCBsare especially valuable, Multilayer PCBs are also beneficial to applications where "cross-talk" levels are critical.

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Theseareafewmain applicationsusingMultilayerPrintedCircuit Boards

- Computers
- Fileservers
- Data storage
- Signal transmission
- Cellphonetransmission
- Cellphonerepeaters
- GPS technology
- Industrialcontrols
- Satellitesystems
- Handhelddevices
- Testequipment
- X-rayequipment
- Heartmonitors
- Catscantechnology
- Atomicaccelerators
- Central firealarm systems
- Fiberopticreceptors
- Nuclear detectionsystems
- Spaceprobe equipment
- Weatheranalysis

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SegmentsWhomWeCaterTo(PCBDivision)

* Telecommunications
* Lighting
* LED Applications
* ConsumerElectronics
* AutomationIndustries
* Automobile Industries
* ComputerApplications

ALEADERINLAMINATES&PCB'S

ProductionCapacity&TechnicalCapabilities

* ProductionCapacity	:	SingleSide-20000Sq.Mt./Month DoubleSide-3000Sq.Mt./Month MetalCore-10000 Sq.Mt./Month
* TypeOfLaminates	:	FR1/CEM-1/CEM-3/FR4&Metal Core
* LaminateThickness	:	0.4–3.20mm
* CopperFoil Thickness	:	18micron–70 micron
* MinimumTrackWidth	:	0.10mm(DoubleSide)&0.15mm(SingleSide)
* MinimumSpacing	:	0.10mm(DoubleSide)&0.15mm(SingleSide)
* Min.HoleSize(CNC)	:	0.30mm(Finish)
* Min.HoleSize(Punching)	:	0.70mm
* MaximumPCBSize(D/S)	:	610mmx500mm
* MaximumPCBSize(S/S)	:	1180mmx500mm
* MaximumPCBSize(MC)	:	1180mmx500mm
* MechanicalTolerances	:	+/-0.10mm
* SurfaceFinishes	:	Lacquer/HAL/Carbon/OSP
* AcceptableDataFormats	:	Gerber274X/ProtelFiles/CoralDrawFiles/AutocadFiles

ALEADERINLAMINATES&PCB'S

RESULTofFY2018-2019

SALESTURNOVER(INR.)

LaminateDivision:

- SalesTurnoverFY2018-2019 : 182Million
- TARGETForFY2019–2020 :220Million

PCBDivision:

- TARGETFORFY2019–2020 :180Million

LEADER IN LAMINATES & PCB'S

Certifications

Certification of Registration

DHAN LAMINATES PRIVATE LIMITED

ADDRESS : 25 CHANDITALA MAIN ROAD, KOLKATA-700002, WEST BENGAL, INDIA

Q4 CERTIFICATION SERVICES PVT. LTD.

ISO 9001:2015

MANUFACTURED OF INSULATED SHEETS FIBER GLASS, WITH COPPER AND WITHOUT COPPER

Certificate No.: Q4CS-I-01-08-17-002

IAF

LEADER IN LAMINATES & PCB'S

PRODUCTTESTREPORTSContinued...

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

TEST REPORT

NAME AND ADDRESS OF CUSTOMER

SAMPLE DESCRIPTION

SAMPLE IDENTIFICATION

Sr. No.	TEST DETAILS	TEST SPECIFICATION
1.	Specific gravity	
2.	Water absorption	
3.	Cross breaking strength	
4.	Impact strength-Charpy	
5.	Insulation resistance	
6.	Electrical strength-Parallel	
7.	Electrical strength-Perpendicular	
8.	Dissipation factor	
9.	Permittivity	

REMARKS: (1) Sample conforms to the requirements as per material data sheet provided by the customer. (2) Photograph of sample is on sheet 2 of 3.

PREPARED BY

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APPROVED BY

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

TEST REPORT No. RP-1718-000016 DATE 28-02-2018 SHEET 2 OF 3

Sr. No.	Particular of Tests & Cl. No.	Requirement as per specification	Observed value	Remarks
1.	Specific gravity at 23°C Cl. No. 4.4, Table 3(i)	Min. 1.4	1.50	Conforms
2.	Water absorption, % (after 24 hrs immersion in water, corrected to 23°C) Cl. No. 4.4, Table 3(ii)	Max. 0.15	0.02	Conforms
3.	Cross breaking strength, N/mm² Cl. No. 4.4, Table 3(iv)	Min. 340	606.4	Conforms
4.	Impact strength-Charpy, kJ/m² Cl. No. 4.4, Table 3(vi) Edgewise, (in-plane)	Min. 70	228.3	Conforms
5.	Insulation resistance, MΩ (after 24 hrs immersion in water, corrected to 23°C) Cl. No. 4.4, Table 3(iii)	Min. 5x10⁴	1.25x10⁶	Conforms
6.	Electrical strength, Transverse, kV/mm (short time test in oil at 23°C, 50Hz.) Cl. No. 4.4, Table 3(viii) (Ave. measured thickness 0.800mm)	Min. 11	14.8	Conforms
7.	Electrical strength, Edgewise, kV/25mm (short time test in oil at 23°C, 50Hz.) Cl. No. 4.4, Table 3(viii) (Ave. measured width: 24.830mm)	Min. 35	71.8	Conforms

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TEST REPORT No. RP-1718-000016 DATE 28-02-2018 SHEET 3 OF 3

Sr. No.	Particular of Tests & Cl. No.	Requirement as per specification	Observed value	Remarks
8.	Dissipation factor Cl. No. 4.4, Table 3(v) At 500 volts, 50Hz., 23°C	Max. 0.025	0.004	Conforms
9.	Permittivity Cl. No. 4.4, Table 3(vi) At 500 volts, 50Hz., 23°C (Ave. measured thickness 0.800mm)	Max. 5.2	5.1	Conforms

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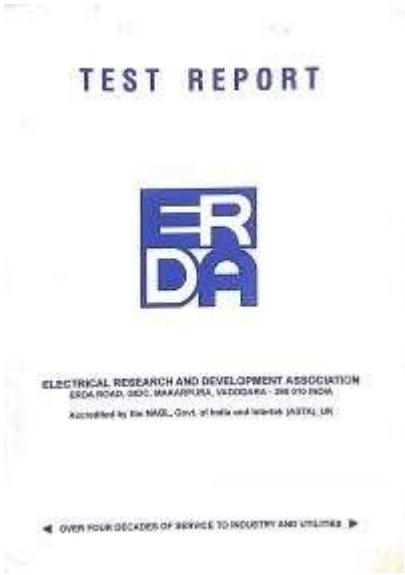
LEADER IN LAMINATES & PCB'S

PRODUCTTESTREPORTSContinued...


TEST REPORT

ERDA

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION
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OVER FOUR DECADES OF SERVICE TO INDUSTRY AND UTILITIES


RECOGNITIONS


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TEST REPORT

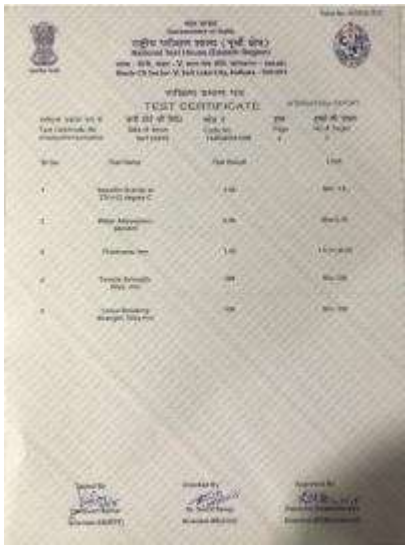

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

LEADER IN LAMINATES & PCB'S

PRODUCTTESTREPORTS


TEST CERTIFICATE

National Test House


TEST CERTIFICATE


TEST CERTIFICATE

LEADER IN LAMINATES & PCB'S

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