



SHANGHAI NANYA COPPER CLAD LAMINATE CO.,LTD

ADD:NO. 158 CHANGXIANG ROAD NANXIANG SHANGHAI, CHINA
HTTP:WWW.CCL-CHINA.COM

Tel:21-69178517 fax:21-69178833

MATERIAL SAFETY DATA SHEET

Identification Name:Laminate & Prepreg

Grade:Technical

Manufacture:**Shanghai Nanya Copper Clad Laminate Co.,Ltd**

Address:No.158 Changxiang Road Nanxiang Shanghai

Physical Data:

Boiling Point:NA °F

Flash Point:NA °F

Melting Point:120-260 °F

Specific Gravity>1.5

Percent Volative:(Prepreg)<4%
(Laminate)<1.5%

Vapor Density:(Air=1)NA

Vapor Pressure:NA mm Hg

Hazardous Reactivity,Instability

Stable at normal temperatures and condition of storage

Fire and Explosion Data:

Flash Point:NA °F

Lower Explosion Limit(%):NA °F

Upper Explosion Limit(%):NA °F

Health Hazard Information:primary routes of entry

Contribution to over Exposure:

	Significant	Minor	Not Likely
Inhalation	✓		
Skin Absorption		✓	
Eye Contact		✓	
Other			✓

Shipping Information,Storage and Handling

Laminate and rolls of prepreg may be very happy,safe handling requires the use of automated materials handling Equipment

Waste Disposal:always follow all local regulation when disposing of waste materials

Shanghai nanya copper clad laminate co.,ltd

March 01, 2001



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上海南亞覆銅箔板有限公司



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物质安全资料手册

MATERIAL SAFETY DATA MANUAL

1、产品及公司名称、地址 PRODUCT AND COMPANY IDENTIFICATION

产品名称: 覆铜箔层压板、半固化片

Product Name: Copper clad laminate、 prepreg

UL档案号: E213990

UL File: E213990

产品用途: 用于印制线路板、制作多层板

Using of the Product: Making for Printed Circuit Board and Mality-lay Board

公司名称及地址: 上海南亞覆銅箔板有限公司

上海南翔昌翔路158号

Company Name and Address: Shanghai Nanya Copper Clad Laminate CO., LTD.

NO.158, Changxiang Road, Nanxiang, Shanghai,

P. R. CHINA

如果您有任何问题或建议的话, 请按如下方式联系我们:

电话: 0086-21-5917-5555

传真: 0086-21-6917-8833

E-MAIL: sales@ccl-china.com

If you have any questions and suggestions, please feel free to contact us and no hesitation

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若要更多的信息，欢迎您登陆我们的网址：

For more information, welcome to INTERNET HTTP:

[http: www.ccl-china.com](http://www.ccl-china.com)

2、产品的组成 COMPOSITION OF THE PRODUCT

原材料名称 含量%

Raw Material contend

玻璃纤维布

Fibre Glass Cloth 30~40

铜箔

Copper Foil 15~25

环氧树脂

Epoxy Resin 40~70

3、物化性能 PHYSICAL AND CHEMICAL PROPERTIES

外观： 板材颜色通常为黄色或白色

Appearance: Yellow or White in normal

气味： 常态下为无味固体

Odor: solid state, none

比重： (水=1.0) 1.7±0.25

Density: (Water =1.0) 1.7±0.25

水溶性： 不溶固体

Solubility: Negligible in water

4、防火测试 FIRE PROOFING TEST

易燃性： 不适应

Flammable Properties: N/A

燃烧等级： UL 94-V0

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Flame rate:	UL 94-V ₀
灭火介质:	水、CO ₂ 、干粉灭火器及细砂
Extinguishing Medium:	Water、CO ₂ 、Dry chemical or sand
不正常火灾:	当发生热温度时, 可能会释放出有毒的含溴化合物
Fire in Especial:	Making decompose, releasing the Bromine Compound
灭火人身安全:	消防员必须穿戴专业的保护装置和正压呼吸系统
Personal Protection:	Firemen should wear proper equipment and posit a pressure self-contained breathing apparatus

5、防静电 ANTI-STATIC

产生环境:	非常干燥、空气完全不流通
Environment:	Exceeding dry and the air no current completely
产生原因:	从堆叠的板料中拿起或放入瞬时
The Reason:	Removing or depositing in a stack of material, causing spark
防护措施:	拿起或放入时, 戴上橡胶手套, 板料周围不能放置易产生易燃性气体的危险物
Protective Measure:	Removing or depositing, wearing rubber mittens NO laying hazardous materials, which make flammability gas around it

6、稳定性及反应性 STABILITY AND REACTIVITY

常态是否稳定:	稳定
Normally Stable:	Stable
不兼容性:	不确定
Incompatibilities:	Not determine
燃烧后的危险化合物:	CO、CO ₂ 、HBr、NO _x (当加热温度超过300°C)
Hazardous Decomposition compound:	CO、CO ₂ 、HBr、NO _x (if heated excess of 300°C)

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是否存在危險聚合物: 无

Hazardous Polymerization: None

7、危险性 HAZARDS IDENTIFICATION

潜在的危險品

Potential Health Hazards

粉末: 当生产、成品切削时, 粉末会飞散出

Powder: Fibrous dust may be released from the fiber-glass cloth substrate when machined

皮肤: 粉末会导致中等程度的皮肤过敏

Skin: Dust may cause moderate skin irritation

眼睛: 粉末会导致中等程度的眼睛过敏

Eyes: Dust may cause moderate eyes irritation

8、加热时的危害 HAZARDS WHEN HEATED

现象: 会产生难闻的气味, 常时间闻此气味严重者, 会出现头痛、头晕

Appearance: Making afflictive gas when heated. For brief contact to dust, no precarious other than headachy and giddy

措施: 设置排气装置, 不断更换新鲜空气

Protection: Putting up exhaust. Changing fresh air constantly

9、首要防护措施 FIRST AID MEASURES

皮肤: 除去已污染的衣物, 用流动水冲洗不小于10分钟; 如有持续过敏现象, 求助医生

Skin: Wash in flowing water on less 15 minutes; if irrigation persists consult a physician

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眼睛: 马上用流动水冲洗15分钟以上, 并不时眨眼睛, 切勿揉搓, 如有持续过敏现象, 求助医生

Eye: Irrigate with flowing water for 15 minutes immediately, blinking continually, forbidding kneading; if irrigation persists consult a physician

吸入: 如粉尘烟气太重, 及时转移到空气新鲜的地方, 危急情况, 进行人工呼吸, 并求助医生诊断

Inhalation: if overcome by dust or smoke, moving to fresh air, no breathing, giving mouth-to-mouth resuscitation, and calling physician

10、工程控制 ENGINEERING CONTROLS

安装、使用除尘通风设备

Setting and using exhaust ventilation to control dust

11、个人防护措施 PERSONAL PROTECTION

皮肤保护: 短暂接触粉尘, 需要时清洗身体或衣服

常接触或常时间接触粉尘, 穿戴防护装置

Skin Protection: For brief contact to dust, no precarious other than clean body covering clothing should be needed

眼睛保护: 使用有关材料操作时, 佩带眼睛保护装置

Eye Protection: Using appropriate eye protection when machining material

呼吸保护: 大气中的玻璃钎维粉尘颗粒不宜大于 $10\text{mg}/\text{m}^3$, 铜屑粉尘颗粒必须小于 $1\text{mg}/\text{m}^3$

Respiratory Protection: The fiberglass in atmospheric should be maintained no more than $10\text{mg}/\text{m}^3$ and copper dust must be under $1\text{mg}/\text{m}^3$

12、毒物学资料 TOXICOLOGICAL INFORMATION

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敏感反应: 粉尘将导致眼、皮肤中毒过敏

Immediate (Acute) Effects: Dust may cause moderate eyes, skin, and respiratory irritation

慢性反应: 未知

Delayed (Subchronic & chronic) Effects: None known

13、生态学资料 ECOLOGICAL INFORMATION

非生物降解

Not biodegradable

14、排放程序及废物处置 SPILL PROCEDURES WASTE DISPOSAL

排放程序: 如材料不被污染, 将其存入洁净的容器中再使用;
如被污染, 将其存入指定容器中待处理

Spill Procedures: If material is not contaminated, scoop into clean containers for reuse. Else, scoop it into containers or disposal

废物处置: 对加工处理出来的废物统一放置, 由认定的清运商进行相关的处理

Waste Disposal: Land filling of cured material in a admissible facility in accordance with local regulations in acceptable disposal method