

TECHNICAL DATA SHEET

G10 EPOXY FIBERGLASS LAMINATES

EFFECTIVE DATE 发布日期	March 8, 2020
REVISED DATE 修改日期	August 11, 2021
TRADE NAME 产品名称	NEMA GRADE G10 / EPGC 201
COMPLY WITH STANDARD 符合标准	IEC 60893-3:2003 / GB/T 1303.4-2009

SECTION I - MISC CHARACTERISTICS

第1部分-主要特点

DENSITY 密度	g/cm3	1.98-2.08
FLAMMABILITY 燃烧性	UL94	N/A
WATER ABSORPTION (5MM) 吸水性	%	≤ 0.15
CHEMICAL FAMILY 化学品类	Resin	Epoxy
REINFORCEMENT TYPE 增强材料	Glass Fabrics	7628
THERMAL CHARACTERISTICS 耐热性能	°C	130
Colour 颜色	Green (Nature), Yellow	

SECTION II - MECHANICAL CHARACTERISTICS

第2部分-机械性能

BENDING STRENGTH 垂直弯曲强度	MPa	≥ 400
TENSILE STRENGTH 抗拉强度	MPa	≥ 300
COMPRESSIVE STRENGTH ⊥ 压缩强度	MPa	≥ 350
MODULUS OF ELASTICITY 弹性模量	MPa	≥ 24000
IMPACT STRENGTH // 平行层向冲击强度	kJ/m2	≥ 33

SECTION III- ELECTRICAL DATA

第3部分-电气性能

ELECTRICAL STRENGTH ⊥ 垂直层向电气强度	kV/mm, Thickness<3MM	≥ 10
ELECTRICAL STRENGTH // 平行层向电气强度	kV	≥ 35
TRACKING RESISTANCE 耐电痕指数	PTI	≥ 200



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SECTION 4 - HAZARDOUS INGREDIENTS 第4部分-有害物质成分			
HAZARDOUS COMPONENTS 有害物质		No OSHA Hazardous Ingredients	
SECTION V - REACTIVITY DATA 第5部分-反应相关数据			
CHEMICAL STABILITY 化学稳定性		Stable under normal conditions. 正常情况下稳定	
CONDITIONS TO AVOID 使用条件		Avoid long time heating above 130°C 长期加热超过130度	
INCOMPATIBLE MATERIALS 不相容物质		Exposure to strong acids or bases will cause damage 接触强酸或强碱会造成损坏	
HAZARDOUS POLYMERIZATIONS 危险的聚合		Will not occur 不会发生	
STORAGE AND USE EFFECTS 储存与使用影响		Conventional performance remains stable within 1 year. Long-term exposure to sunlight and high humidity will cause discoloration and performance degradation. 性能在1年内保持稳定，长期暴露在阳光下，和高湿环境中，会引起变色及性能的降低	

SECTION VI - PRECAUTION 第6部分-注意事项			
OVER EXPOSURE EFFECTS 过量暴露危害		Dust from machining can irritation to eyes, nose, throat and lungs. Prolonged inhalation of dust can produce lung disease. 加工中会产生粉尘会刺激眼睛、鼻子、喉咙和肺。长期吸入粉尘可致肺疾病。	

SECTION VII- TOLERANCE 第7部分-公差		Thickness in Length & Width is within 5 MM	
THICKNESS (MM)	TOLERANCE (MM)	THICKNESS (MM)	TOLERANCE (MM)
0.5 - 0.8	±0.05	6.0 - 8.0	±0.35
1.0 - 1.8	±0.1	10.0 - 15.0	±0.60
2.0 - 2.8	±0.15	16.0 - 20.0	±0.85
3.0 - 5.0	±0.20	21.0 - 50.0	±1.60

Notes:
备注:

All information recommendations and suggestions appearing herein concerning this product are average values ascertained at room temperature by regularly statistic analyses, it is provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sales. The values here are not legally binding or fully comply with standards so that we cannot accept any responsibility for the accuracy. In addition, the data mentioned in above table are average values ascertained by current statistical returns and tests.

此处出现的有关此产品的所有信息推荐和建议均基于室温下常规静态测试分析获得的数据，它仅是提供数据，除非在销售合同中另有明确协议，才具有约束力。以上数据并非完全与标准一致。

REFERENCES:

P=PASS, N/P= Not Pass, N/A = Not Applicable, N/D = Not Determined, N.D.A. = No Date Available



ZTELEC ELECTRIC TECHNOLOGY(ZHENGZHOU)CO.,LTD
 #14 ZTAERO BUILDING, No.273, 3rd WEST RING RD,
 ZHENGZHOU, HENAN, CHINA (451000)
www.ztaero.com
www.ztelecgroup.com

