

环氧树脂浇注料C-EP 330/331

产品名称	环氧树脂浇注料C-EP 330/331
公司名称	珠海正邦科技有限公司
价格	1.00/吨
规格参数	品牌:正邦 树脂胶分类:环氧树脂
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产品详情

品牌	正邦	树脂胶分类	环氧树脂
型号	C-EP 330/331 C-EP 330/331	粘合材料	机电绝缘件

c-ep 330/331technical data sheet

product description产品描述

c-ep 330/331 is a liquid, hot cure, two component epoxy casting system. the cured system exhibit exceptional resistance to thermal cycling and thermal endurance properties. application includes indoor medium and high voltage electrical insulating components, such as insulators, switchgear, bushing and high strength parts for structural, and large cast coils application with following advantages. c-ep330/331为液态双组分的热固化环氧树脂浇铸胶。该产品具有良好的耐热性和散热性。适用于室内绝缘子、开关、轴衬等中高压元件以及高强度结构零件和大量铸造线圈的浇铸。经过浇铸后的元件具有以下优势：

- 2 outstanding service temperature up to 200 ° c工作温度最高可达到200 ° c
- 2 components are easily processed liquid操作便利
- 2 good fracture toughness良好的断裂韧性
- 2 outstanding dimensional stability尺寸稳定性优异

properties of uncured material固化前材料性能

properties	test method	resin-330	hardener-331

性能	测试方法	环氧树脂-330	固化剂-331
color/appearance	visual	natural viscous liquid,	beige viscous liquid,
颜色/外观	目测法	自然色粘性液体	米黄色粘性液体
specific gravity比重	astm d-792	1.75	1.91
viscosity @ 40 ° c, cps粘度 (40 ° c)	astm d-2393	10, 000	3, 000
shelf life, 25 ° c, month保质期 (25 ° c)		12	12

typical properties of cured material 固化后材料典型物理性能

property	test method 测试方法	value
性能		数值
specific gravity, g/cc 比重		1.84
hardness (shore d) 硬度	shore d	95
elongation at break, % 断裂延伸率		1.5
tensile strength, mpa 拉伸强度		85
tensile modulus, mpa 拉伸模量		10,000
flexural strength, mpa 挠曲强度	astm d790	130
flexural modulus, mpa 挠性模量	astm d790	9800
critical stress intensity factor, k1c, mpa.m ^{1/2}		2.75
临界应力强度因子		
glass transition temperature, ° c		120
玻璃化转变温度		
thermal conductivity, w/m-k 导热率		0.75
coefficient of thermal expansion, cte	astm d3386	30 e-06
热膨胀系数		
water absorption, % weight, 10days, 25 ° c		0.15
吸水率		
flammability rating	ul94	v-1 (12mm), hb (4mm)
燃性等级		
thermal aging class, 20000 hours	iec	class h
热时效等级		
thermal endurance, ° c 热稳定性		200
arc resistance, seconds 抗电弧性(弧阻)	astm d945	120
breakdown strength, 1mm, kv/mm 击穿强度		22

directions for use 使用指南

mix ratio by weight 重量比

resin-ep 330 100

hardener-ep 331 100

pot life 操作时间

effective pot life is about 3 days at temperature below 25 ° c. 在25 ° c. 以下的有效使用期限大约是3天。

automatic pressure gelation (apg) process 自动压力凝胶工艺

² pre-heat mold at 140-160 ° c 预热模型 140-160 ° c

² gel in mold for 20-40 minutes 在模型中凝胶 20-40 分钟

² post cure: 4 hrs @ 140 ° c 后续固化：140 ° c 时 4 个小时

conventional gravity casting process under vacuum 常规重力真空浇注工艺

² pre-heat mold to 80- 100 ° c 预热模型 80-100 ° c

² fill mold under vacuum and gel for 4-8 hrs 真空环境下填充，凝胶 4-8 小时

² post cure: 8 hrs @ 130 ° c 后续固化：130 ° c 时 8 个小时

shelf life 保存方法

store at 18 - 25 ° c in a dry place. hardener-331 is moisture sensitive, after each partial use, purge with dry nitrogen and tightly reseal. 保存于 21- 30

° c 的干燥地方。hardener-331 容易受潮，每次用完后应用干氮气清理干净并密封保存。