



产品参数表

CRIOFOAM® Crio P

Crio P 系列结构泡沫

产品特性/Product propertions

- 良好的热传导率
- 出色的火中反应(阻燃性)
- 极度兼容,无孔表面
- 与树脂完美兼容和粘合
- 高热变形温度
- 良好耐苯乙烯性能
- 低密度

- Good thermal conductivity ratio
- Excellent fire reaction(fire resistance)
- Extreme compatibility and no porosity surface
- Perfect compatibility and adhesion with resins
- · High heat distortion temperature
- Excellent resistance to styrene
- Low density

应用领域/Applications

• 公路和轨道交通:

冷藏、运输等

•船舶:

船体、舱壁等

· 工业:

工装、罐、管道、盖板等

· Road and Rail:

Thermal insulation transportation, ...

Marine:

Hulls, bulkheads, ...

· Industries:

Tooling, tanks, ductwork, covers, ...

应用工艺/ Applicable Processes

- •接触成型(手糊/喷射)
- RTM 及真空导流
- 粘结
- 热成型

- Contact Forming (Hand/Spray)
- RTM and Vacuum Infusion
- · Adhesive Bonding
- Thermoforming



Crio P为SOTECOFOAM® 泡沫系列 产品

之一,Crio P 是一种交联结构的硬质泡沫,特殊的化学结构及发泡剂赋予泡沫优异的绝热性能,较普通的硬质泡沫节省20%的能量,与不饱和树脂、环氧树脂和乙烯基树脂相兼容,具有良好的阻燃性,达到 DIN B2 级别。主要用于冷藏、运输等领域。

Crio P is the SOTECOFOAM® foam series products

Crio P is a kind of rigid foam with cross-linked structure. The special chemical structure and foaming agent give the foam excellent adiabatic performance, saving 20% energy compared with ordinary rigid foam, and unsaturated resin and epoxy The resin is compatible with vinyl resin and has good flame retardant Sex, reaching the DIN B2 level. Mainly used for refrigeration, transportation And other fields.

| 典型性能/Typical Performance | | 单位/unit | P35 | P45 |
|---------------------------------------|-----------------|---------|----------------|--------------|
| 名义密度 Nominal Density | ASTM - D 1622 | Kg/m³ | 30-40 | 40-50 |
| 压缩强度 Compressive Strength | ASTM - D 1621 | MPa | 0.26 (0.22) | 0.36 (0.28) |
| 压缩模量 Compressive Modulus | ASTM - D 1621-B | MPa | 12 (9) | 14.5 (12) |
| 剪切强度 Shear Strength | ASTM - C 273 | MPa | 0.25 (0.2) | 0.3 (0.28) |
| 剪切模量 Shear Modulus | ASTM - C 273 | MPa | 3.5 (2.5) | 5.0 (4.0) |
| 剪切伸长率 Shear Elongation | ASTM - C 273 | % | 15 (10) | 15 (10) |
| 阻燃性能 Fire Performance | DIN-4102-1 | Class | B2 | B2 |
| 热变形温度 Heat Distortion Temperature | DIN - 53424 | °C | 120 | 120 |
| 初始热导率 Initial Thermal Conductivity | ASTM - C 518 | mW/mK | 26 | 27 |
| 使用温度 Service Temperature | 1 | °C | -180, +100 | -180,+100 |
| 吸水率 Water absorption | ISO 2896 | % | <2 | <2 |

^{*}加工方式,其他尺寸基于客户要求

2 2024-Rev.01

^{*}Finishing Options, other dimensions and closer tolerances upon request

^{*}以上数据为 23±1°C 和 50±5%湿度条件下测试平均值

^{*}Above are the average values measured at 23+1 $^\circ$ C and 50+5 $^\circ$ s as RH.

^{*}使用温度指持续使用温度,峰值温度可以更高

^{*}Service temperature means for continuous service, peak temperature can be higher.

备注/Notes:

*所有的建议和指导都出自十足的信心,联洋公司保证任何建议和指导都会以书面的方式传达,除此以外联洋公司不承担任何责任。具体内容请向联 洋公司询问或访问本公司网站: www.nmgonline.com

*All advices, instructions or recommendations are given in good faith but NMG (the company) only warrants that advice in writing is given with reasonable skill and care. No further duty or responsibility is accepted by NMG. For details please contact NMG or review our website: www.nmgonline.com

*联洋公司强烈建议客户对本公司提供的材料进行相关的测试以确保材料符合需求。测试条件应该最大限度地模仿材料的实际使用条件。联洋公司不对任何非书面规定之材料性能和适用范围承担责任。联洋公司保留对产品的规格和价格进行变更而不需提前通知客户的权利,客户应确认其参照的任何资料都与联洋公司网站中刊登的内容相一致。任何疑问请与技术服务部门联系。联洋公司会持续对公司网站中刊登的内容进行审查及更新,请和联洋公司营销部门联系以确认您得到的是最新版本的资料,版本号在本页右下角。

*NMG strongly recommends that customers make test panels and conduct appropriate testings of any goods or materials supplied by NMG to ensure that they are suitable for your applications. The testing conditions shall be as close as possible to the actual service environment in which the final component may be subjected. NMG specifically excludes any warranty of fitness for purpose of the goods other than as set out in writing by NMG. NMG reserves the right to change specifications and prices without notice and customers shall confirm by themselves that the referred information is in accordance with the content on NMG's website. Any queries may be addressed to the technical services departments. NMG will keep reviewing and updating the content. Please contact the marketing departments to ensure that you have the current version. The version number is in the bottom right-hand corner of this page.

中国/CHINA

浙江联洋新材料股份有限公司

NMG Composites Co., Ltd.

中国浙江 桐乡市崇福镇工业区新中路 111

号,314511

Chongfu Industrial Park, Tongxiang,

Zhejiang, China, 314511

Tel: +86(0)573 88849111 Fax: +86(0)573 88849112

E-mail: info@nmgonline.com

Web: www.nmgonline.com

3 2024-Rev.01