



YQX-RMF95 Recycled Melamine Foam / YQX-RMF95

95kg 回收三聚氰胺泡沫

TECHNICAL DATA SHEET (TDS) / 技术数据表

1. Product overview / 产品概述

Model: YQX-RMF95 (Recycled Melamine Foam)

型号: YQX-RMF95 (95kg 回收三聚氰胺泡沫)

YQX-RMF95 is an ultra-high-density recycled melamine composite foam produced by bonding post-industrial melamine foam scraps with a polyurethane (PU) binding system. With a density of approximately 95 kg/m³, this grade provides significant mass loading, excellent mechanical rigidity and superior vibration damping performance. It is primarily designed for structural sound insulation, heavy-duty mechanical enclosures and vibration control applications where breathability is not required.

YQX-RMF95 为超高密度回收三聚氰胺复合泡沫材料，通过聚氨酯（PU）体系将三聚氰胺泡沫工业废料复合而成。其表观密度约为 95 kg/m³，具备显著的质量加载效应、优异的结构刚性及减振阻尼性能。该材料主要用于结构性隔声、重载机械外壳及振动控制等不要求可呼吸性的应用场景。

Material positioning: ultra-high-density recycled melamine foam for mass-based sound insulation, vibration damping and heavy mechanical enclosure applications.

材料定位：面向质量型隔声、减振阻尼及重型机械外壳应用的超高密度回收三聚氰胺泡沫材料。

2. Key features & benefits / 主要特性与优势

- Ultra-high density for maximum sound insulation (mass effect)
超高密度结构，提供最大隔声效果（质量效应）
- Excellent vibration damping and structural rigidity
优异的减振阻尼性能与结构刚性
- Recycled melamine foam from post-industrial waste
由三聚氰胺泡沫工业废料回收制备
- Flame retardant: UL 94 V-0 / GB 8624 B1
阻燃性能：UL 94 V-0 / GB 8624 B1



- Non-breathable structure – sealing recommended for indoor use
不可呼吸结构，室内使用建议封闭处理

3. Typical properties / 典型性能参数

Values are typical and provided for engineering reference only. Actual values may vary with PU bonding formulation, recycled feedstock composition and test method.

以下数据为工程参考典型值，实际性能可能随 PU 结合体系、回收原料组成及测试方法不同而变化。

Property 性能项目	Unit 单位	Test method 测试方法	Typical / Range 典型值 / 范围
Density 密度	kg/m ³	ISO 845	95 ± 5
Color 颜色	-	Visual	Off white
Cell structure 泡孔结构	-	Observation	Open-cell (agglomerated chips)
Thermal conductivity 导热系数	W/(m·K)	ASTM C518 @10°C	≤ 0.040
Sound insulation function 隔声机理	-	Internal	Mass-based sound insulation
Compression strength (10%) 压缩强度 (10%)	kPa	ISO 3386-1	45 – 70
Flame resistance 阻燃性能	-	UL 94 / GB 8624	UL 94 V-0 / GB 8624 B1
Water absorption 吸水率	kg/m ²	ISO 62	≤ 0.5
Formaldehyde emission 甲醛释放	-	Internal	Depends on PU system; sealing recommended
Operating temperature	°C	Internal	-40 to +120 (cont.), +150

使用温度范围			(short-term)
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4. Supply forms / 供货形式

Supply forms:

- Sheets
- Blocks
- CNC-cut filler panels

供货形式:

- 片材
- 块材
- CNC 切割填充板

5. Application areas / 应用领域

- Heavy-duty mechanical enclosures
重载机械外壳
- Structural sound insulation walls and partitions
结构性隔声墙体与隔断
- Vibration damping layers in machinery
机械设备减振阻尼层
- Floor and base isolation systems
地面与基础隔振系统
- Not suitable for breathable acoustic panels
不适用于可呼吸声学吸音面板

6. Use guidance / 使用建议

- Surface sealing or encapsulation is recommended for indoor applications.
- Mechanical fixation is preferred over adhesives for heavy panels.
- 室内应用建议进行表面封闭或包覆处理。
- 对于重型板材结构，建议采用机械固定方式。

7. Storage, handling & transportation / 存储、操作与运输

Store in a dry, cool environment. Protect from UV exposure and moisture.

Avoid prolonged heavy stacking during storage and transport.



应存放于干燥、阴凉环境中，避免紫外线及潮湿影响。
存储和运输过程中避免长期重压堆放。

8. Compliance & disclaimer / 合规与免责声明

This TDS does not replace Safety Data Sheets (SDS) or project-specific qualification documents. Typical values are not guaranteed specifications. Recycled materials may show batch-to-batch variation.

本技术数据表不替代安全数据表（SDS）或项目级认证文件；所列数据为典型值，不构成保证指标。回收材料产品可能存在批次差异。

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