



YQX-RMF60 Recycled Melamine Foam / YQX-RMF60

60kg 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-RMF60 (Recycled Melamine Foam)

型号: YQX-RMF60 (60kg 回收三聚氰胺泡沫)

YQX-RMF60 is a high-density recycled melamine composite foam produced by bonding post-industrial melamine foam scraps with a polyurethane (PU) system. Owing to its increased mass and structural rigidity, this grade is specifically designed for mechanical soundproofing, high-load acoustic insulation panels, and vibration damping applications. Due to the PU bonding system, it is not recommended for exposed or breathable acoustic panels unless properly sealed.

YQX-RMF60 是一种高密度回收三聚氰胺复合泡沫材料，由三聚氰胺泡沫工业废料与聚氨酯（PU）体系复合而成。凭借其更高的单位质量和结构强度，该材料特别适用于机械隔音、高载荷声学隔热板以及减振阻尼应用。由于采用 PU 结合体系，若用于暴露或可呼吸声学结构，建议进行封闭处理。

Material positioning: high-density recycled melamine foam for mass-based sound insulation, mechanical enclosures and vibration damping under non-breathable conditions.

材料定位：面向不可呼吸工况下，以质量隔声为主的高密度回收三聚氰胺泡沫材料，适用于机械外壳、隔声结构及减振应用。

2. Key features & benefits / 主要特性与优势

- Recycled melamine foam from post-industrial waste
采用三聚氰胺泡沫工业废料回收制备
- High density for enhanced sound insulation (mass effect)
高密度结构，强化隔声（质量效应）
- Excellent flame retardancy: UL 94 V-0 / GB 8624 B1
优异阻燃性能：UL 94 V-0 / GB 8624 B1
- Suitable for vibration damping and impact resistance
适用于减振阻尼及抗冲击结构



- Requires sealing for breathable or indoor exposed use
用于可呼吸或室内暴露场景时需封闭处理

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, processing conditions 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、加工条件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	60 ± 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	≤ 0.038
Sound insulation function 隔声功能	-	Internal	Mass-based sound insulation
Compression strength (10%) 压缩强度 (10%)	kPa	ISO 3386-1	30 – 45
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	≤ 0.6
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)
--------	--	--	--------------

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

- Mechanical enclosures and acoustic housings
机械外壳及声学罩体
- High-load wall, floor and partition insulation
高载荷墙体、地面及隔断隔声
- HVAC ducts and machinery panels
HVAC 风管及机械面板
- Sandwich panels requiring additional mass
需要附加质量的夹芯板结构
- Not recommended for breathable acoustic panels unless sealed
未封闭情况下不建议用于可呼吸声学面板

6. Use guidance / 使用建议

- Sealing or surface encapsulation is recommended for indoor use.
- Avoid prolonged UV exposure to minimize yellowing.
- 室内使用建议进行封闭或表面包覆处理。
- 避免长时间紫外线照射，以减少黄变风险。

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

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

Standard PE bag packaging; avoid heavy stacking during storage.



应存放于干燥、阴凉环境中，避免紫外线和潮湿影响。

标准 PE 袋包装，存储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 products 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。

Issued by YDN SINOYQX (Pinghu) Technology LLC
Email: sales@sinoyqx.com | Website: www.sinoyqx.com