



YQX-W White Melamine Foam / YQX-W 白色三聚氰胺泡沫

TECHNICAL DATA SHEET (TDS) / 技术数据表

1. Product overview / 产品概述

- Model: YQX-W (white melamine foam)
型号: YQX-W (白色三聚氰胺泡沫)
- Form: block / bun; can be converted to sheets and fabricated parts
形态: 块料 / 发泡坯料, 可加工为板材及异形件
- Typical applications: acoustic absorption, thermal insulation, flame-retardant lightweight liners and cushioning (application suitability to be verified by customer)
典型应用: 吸声结构、隔热保温、阻燃轻量化内衬及缓冲材料 (具体适用性需客户自行验证)

2. Typical properties / 典型性能参数

Values are typical and provided for reference only. Actual values may vary with production batch, thickness, conditioning, and test method.

以下数据为典型参考值, 实际性能可能因生产批次、材料厚度、环境条件及测试方法不同而有所差异。

Property 性能项目	Unit 单位	Test method 测试方法	Typical / Limit 典型值 / 限值
Apparent density 表观密度	kg/m ³	GB/T 6343	8.5 ± 1
Thermal conductivity 导热系数	W/(m·K)	GB/T 10295	≤ 0.034
Noise Reduction Coefficient (NRC)* 降噪系数 (NRC) *	-	GB/T 11887-2012	≥ 0.90



Oxygen Index (LOI) 极限氧指数	%	GB/T 2406	≥ 32.3
Formaldehyde emission 甲醛释放量	mg/m ³	ASTM D5116-17	< 0.1
Flammability (as tested)** 阻燃性能（按测试结果）	-	UL 94	V-0 / HF-1
Rail fire performance (as tested)** 轨道交通防火性能（按测试结果）	-	EN 45545-2:2020	HL1 / HL2 / HL3

* NRC value based on 50 mm thickness sample.

NRC 数据基于 50 mm 厚度样品。

** Test results depend on specimen thickness, density and configuration.

阻燃及防火等级与样品厚度、密度及测试条件有关，以测试报告为准。

3. Dimensions & service temperature / 尺寸与使用温度

Operating temperature 使用温度范围	-180 °C to +200 °C
Standard block size 标准块料尺寸	2500 × 1250–1270 × 350 mm
Standard bun size 标准发泡坯尺寸	2550 × 1300 × 420 mm

4. Compliance & important notes / 合规性与重要声明

- This TDS does not replace the Safety Data Sheet (SDS) or project-specific qualification.
本技术数据表不替代安全数据表（SDS）或项目级验证文件。
- Typical values are not guaranteed specifications.
典型值不构成保证指标。
- Customers must verify fitness for use under their own conditions and regulations.
客户需自行验证材料在其具体工况及法规要求下的适用性。
- Referenced standards and marks describe test methods only; official test reports are available upon request.
文中涉及的标准及标识仅用于说明测试方法，相关测试报告可按需提供。

5. Application areas / 应用领域

- HVAC & ventilation systems
HVAC 与通风系统（风管内衬、消音箱、设备壳体）
- Rail transit & rolling stock interiors
轨道交通及车辆内部吸声与防火隔热
- Energy storage systems (ESS) & inverter enclosures
储能系统（ESS）及逆变器壳体的隔热与降噪
- Industrial machinery & equipment housings
工业设备及机械外壳的吸声与热管理
- Building acoustics & fire-safe insulation
建筑声学及阻燃隔热结构
- Low-emission indoor environments (relevant to internal grades 9653)
低排放、室内空气质量敏感环境（适用于内部产品代码 9653）

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

Store in a dry, clean and well-ventilated environment. Avoid prolonged exposure to moisture, direct sunlight or compression.

材料应存放于干燥、清洁、通风环境中，避免长期受潮、阳光直射或持续压缩。

During handling and cutting, conventional mechanical cutting or water-jet cutting may be used. Avoid excessive dust accumulation and follow local occupational safety guidelines.

在搬运和加工过程中，可采用常规机械切割或水刀切割方式，避免粉尘堆积，并遵循当地职业安全规范。

Transportation should be arranged to prevent permanent deformation. Shelf life is not limited when stored under recommended conditions.

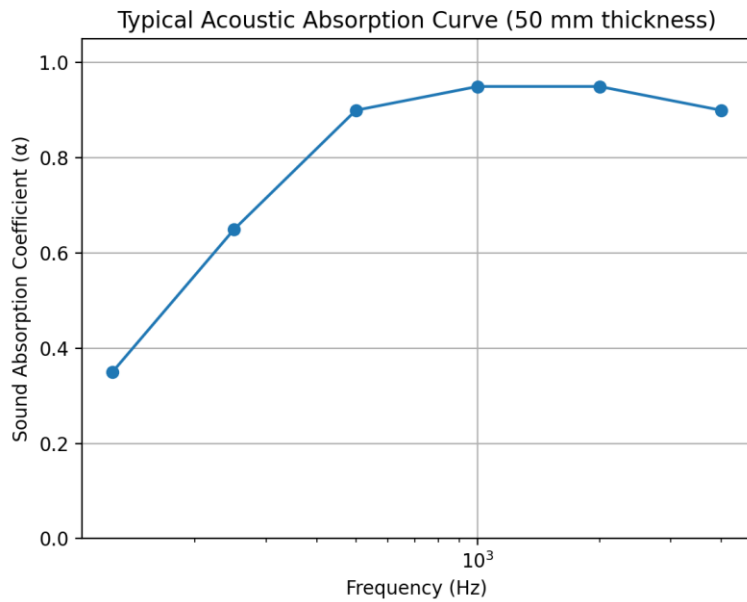
运输过程中应避免永久性压缩变形；在推荐储存条件下，材料无明确保质期限制。

7. Typical performance curves / 典型性能曲线

The following curves are typical and provided for reference only. They do not constitute guaranteed specifications. 以下曲线为典型性能参考，仅用于工程评估，不构成保证指标。

Typical acoustic absorption curve (50 mm thickness)

典型吸声性能曲线（50 mm 厚度）



Typical thermal conductivity vs temperature

典型导热系数随温度变化曲线

