

SILENTECH - M

Innovative Acoustics & Thermal Solutions

SILENTECH-M is an Ether-based PU FR foam developed with advanced MEP* Technology.

Engineered through extensive R&D, its scientifically optimized cell structure ensures exceptional sound absorption, thermal insulation, fire resistance, and chemical stability.

MAJOR APPLICATIONS

- Recording Studios & Theaters
- Railway & Aerospace Interiors
- Automobiles & Engine Compartments
- Industrial Machinery Enclosures
- Office & Commercial Buildings
- HVAC Duct Lining & Insulation

TECHNICAL SPECIFICATIONS

- Colour: Light Grey
- Density (kg/m³): 18
- Compression Hardness (kPa): 4.8
- Tensile Strength (kPa): 98
- Elongation at Break (%): 130
- UL94 Flammability: HF-1 Pass
- FMVSS 302 Flammability: Self-Extinguishing
- MARHE @ 25 kW/m²: 78
- NRC @ 25mm: 0.47

KEY FEATURES

- NRC >= 0.47 - Superior Sound Absorption
- UL94 HF-1 Certified - Flame Retardant
- Low Thermal Conductivity (0.033 W/mK)
- Lightweight, Flexible & Durable
- Easy to Cut, Shape & Install
- Non-Toxic & Safe for Indoor Use

FIRE BEHAVIOR (EN45545-2 COMPLIANCE)

Parameter	Limit	Result	Status
Ds (4) T10.01 (EN ISO 5659-2: 50 kW/m2)	Max 300	100.2	Confirms
VOF4 T10.02 (EN ISO 5659-2: 50 kW/m2)	Max 600	384.2	Confirms
CITg T11.01 (EN 17084 Method 1: 50kW/m2)	Max 0.9	0.24	Confirms
MARHE T03.01 (ISO 5660-1: 50 kW/m2)	Max 90	69.6	Confirms

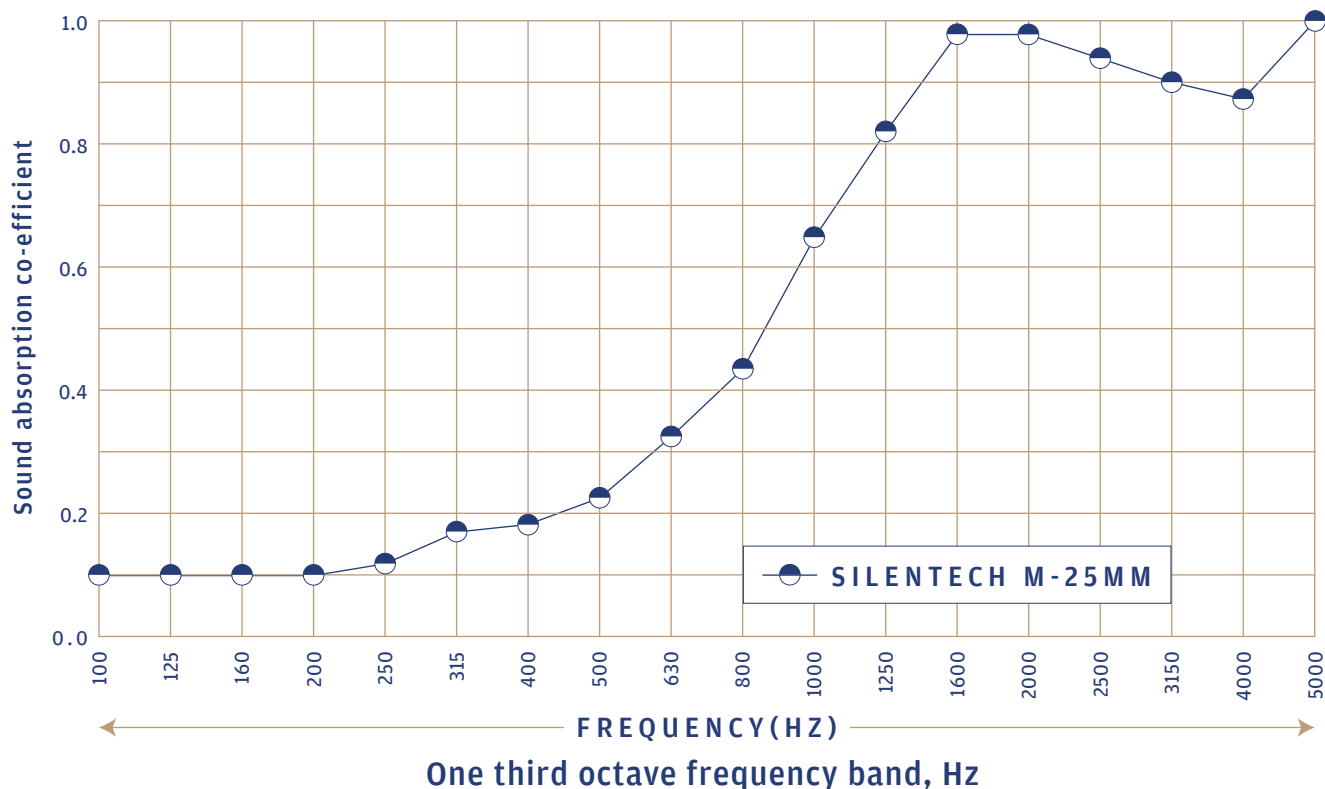
THERMAL & ACOUSTIC PERFORMANCE

- Thermal Conductivity @10°C: 0.033 W/mK
(DIN EN 12667:2001)
- Sound Absorption (NRC): 0.47 (ASTM E1050)

*MEP Technology with high-pressure continuous foaming ensures precise metering, excellent mixing, and process control, eliminating off-ratio risk while delivering consistent quality, superior properties, no hazardous vapors, minimal VOCs, and enhanced safety.

RISAC of Silentech M at 25 mm thickness at one third octave frequencies

HIGHER IS BETTER



ABOUT SHEELA FOAM

Sheela Group is a \$500 million entity with footprints in India, Australia & Spain.

India's No.1 PU foam manufacturer with 30% Slabstock market share and exporting to 18 countries.

India's largest mattress producer – 1.5 million units per annum

Operates 17 facilities in India

Produces 60,000 tonnes of PU foam per annum

Dedicated R&D Lab

Pioneers of eco-friendly Variable Pressure Foaming (VPF) technology

110+ distributors, 5,000+ dealers, 80,000 upholsterers' network.

Trusted by leading brands in Footwear, Automotive, Railways, Apparel, Furniture and Mattress industry.

