

TECHNICAL DATA SHEET

SOUND MITIGATION PANEL

INSULATION SOLUTIONS

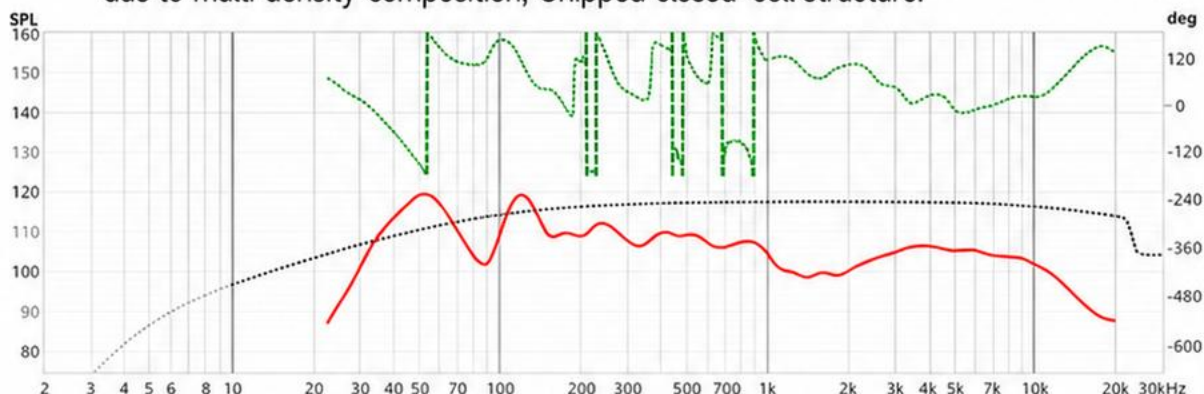
Below is the technical specification based on high-performance multi- XPE chip foam Sound mitigation panel:

Typical Technical Specifications (Closed cell Multi XPE chip Foam)

- **Base Material:** Closed-cell poly Ethelene foam.
- **Additive:** Carbon loading (impregnation) for electromagnetic loss.
- **Flame Retardancy:** Formulated to meet basic safety standards for combustibility up to 150°C / spark and arc safe / not safe for open-flame exposure or excessive temperature areas exceeding 130°C.
- **Density:** Commonly available in ranges from 98 kg/m³ to 110 kg/m³ for flexible, acoustic variants.
- **Color:** Primarily black/ dark grey (due to repurposed content).
- **Temperature Range:** Effective operating range is typically -10°C to 90°C.
- **Cell Structure:** Closed-cell (minimal porous, air/water resistant by 80%).

Performance Characteristics

- **Electromagnetic Absorption:** Provides broadband moderate absorption from 500 MHz up to 5 GHz, reducing RF reflections and suppressing electromagnetic energy (crosstalk reduction).
- **Fire Safety:** low resistance to ignition and flame propagation.
- **Acoustic&Vibration Control:** High-performance sound absorption and attenuation due to multi density composition, Chipped closed-cell structure.



- **Compressibility:** Average flexibility and Low compression recovery.

Common Applications

- **Industrial / Automotive / Aerospace:** Soundproofing, vibration damping, and insulation padding.

Available Forms

- **Sheets:** Commonly sold in standard sizes (e.g., 1200 x 2400mm). Thickness between 20 – 110mm
- **Cut/Machined Parts:** Often used to create specific components for soundproofing / insulation or damping assemblies.

Note: Specific properties can vary by manufacturer. Typical technical data sheets for these materials focus on acoustic energy loss (dB) at specific frequencies bandwidths and related ratings.