

PMI Foam Engineering Decision Brief

Purpose

Use this brief to prepare a project discussion for PMI foam core, CNC-machined core geometry, composite sandwich construction, or a related material comparison. It does not replace the applicable grade datasheet, project design authority, or production release documentation.

1. Component context

Record the intended component or application, the function of the core, known interfaces, and the relevant drawing or model revision. Describe whether the geometry is flat, curved, double-curved, or complex 3D.

2. Core and geometry

Identify the expected core form—sheet, block, custom form, or CNC-machined core—together with known thickness direction, features, contours, channels, holes, and controlled surfaces. Attach the most useful file package: STEP, STP, IGES, STL, DXF, DWG, PDF, or ZIP.

3. Composite and processing context

Describe the anticipated sandwich structure, laminate or skin context, and process route if known. State whether the project needs CNC preparation, thermoforming review, autoclave-related planning, RTM-related planning, vacuum process planning, bonding, or another project-specific process review.

4. Technical data request

State which questions need confirmation from the applicable grade documentation. These may include material form, density direction, thickness, dimensions, processing context, or project-specific data. Do not rely on general online content for mechanical values, temperature limits, dielectric information, resin behaviour, cell structure, tolerances, or suitability.

5. Commercial and handoff information

Provide quantity context, target delivery destination, packaging needs, required documentation, quality or inspection expectations, and any timing requirements. Price, MOQ, sample availability,

COA format, lead time, and final commercial scope are confirmed for the actual project.

6. Next step

Submit the completed information through the RFQ or CAD-upload route. The technical team can then review the actual component, the requested PMI core form, manufacturing context, and applicable documentation before a project-specific response is prepared.