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## Technical Data Sheet: PVC Fluted Panel

**Product Description:** PVC Fluted Panels are lightweight, durable, and versatile panels made from polyvinyl chloride (PVC). They feature a fluted structure for added strength and rigidity, making them ideal for a wide range of applications including wall cladding, signage, and display solutions.

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### Product Specifications:

- **Material:** Polyvinyl Chloride (PVC)
  - **Panel Structure:** Fluted (Corrugated)
  - **Colour Options:** White, Black, Custom Colors
  - **Surface Finish:** Matte/Satin/Glossy
  - **Standard Thicknesses:** 10mm ~ 20mm
  - **Standard Widths:** 150~300mm
  - **Standard Lengths:** 2900mm
  - **Weight:** 5.8kgs/sqm
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### Mechanical Properties:

- **Tensile Strength:** 45 MPa (ASTM D638)
  - **Flexural Strength:** 70 MPa (ASTM D790)
  - **Impact Strength:** 20 kJ/m<sup>2</sup> (ASTM D256)
  - **Compressive Strength:** 60 MPa (ASTM D695)
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### Thermal Properties:

- **Thermal Conductivity:** 0.15 W/mK
  - **Coefficient of Thermal Expansion:**  $6.7 \times 10^{-5}$  /°C
  - **Operating Temperature Range:** -20°C to +60°C
  - **Heat Deflection Temperature:** 60°C (ASTM D648)
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### Chemical Properties:

- **Chemical Resistance:** Resistant to acids, alkalis, and oils
  - **Water Absorption:** <0.1% (ASTM D570)
  - **Flammability:** Self-extinguishing (UL 94 V-0)
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## Physical Properties:

- **Hardness:** Shore D 80 (ASTM D2240)
  - **UV Resistance:** Moderate (with UV stabilizers)
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## Applications:

- Wall Cladding
  - Signage and Displays
  - Exhibition Stands
  - Point of Sale (POS) Displays
  - Interior Decoration
  - Partitions
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## Installation & Maintenance:

- **Installation:** Can be cut, drilled, and mounted using standard tools. Use adhesive, screws, or nails for installation.
  - **Maintenance:** Clean with mild detergent and water. Avoid abrasive cleaners and solvents.
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## Environmental Considerations:

- **Recyclability:** 100% recyclable
  - **Compliance:** RoHS, REACH compliant
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## Packaging:

- Panels are packed in protective packaging to prevent damage during transportation.
  - Custom packaging available upon request.
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## Safety Information:

- **Handling:** Use gloves and safety goggles when cutting or drilling.
- **Storage:** Store in a cool, dry place away from direct sunlight.