

Moulded Interior Trim

Description

Moulded Interior Trim Panels are manufactured from medium-density glass fibres blended with phenolic resins to form a pelt; lightweight polyester fibres fused together to form a blanket; or resinated cotton pelts. The interior face generally features a choice of aesthetically pleasing, acoustically transparent fabrics which can be embossed to include company logos or individual surface designs. The reverse face can be covered with black non-woven polyester fabric.



The composite raw materials can be moulded into complex three-dimensional shapes with a high degree of surface definition. They can be designed to incorporate air conditioning ducting, air vents, lighting, wiring looms, speakers, stowage boxes and other equipment to provide clients with a complete sub-assembly.

Moulded Interior Trim Panels provide a high level of acoustic absorption and a degree of thermal insulation to enhance the level of driver comfort and the aesthetic appeal of the vehicle.

Colour

Base Materials

Glass fibre and resinated cotton	-	Greenish yellow
Polyester fibre	-	White

Interior Surface

A selection of fabrics in various colours are available subject to minimum order quantities.

Reverse Surface

Generally faced with a black non-woven polyester fabric.

Application

Moulded Interior Trim Panels are used extensively as the interior finish in the cabs of earth moving and agricultural equipment, road sweeping and utility vehicles, buses, coaches, specialist cars and other motor vehicles; as headliners, interior body, door, cantrail, supporting pillar trims and boot liners.

Design, Prototype and Testing

Highly qualified technical engineering staff are available to work with vehicle stylists and manufacturing design teams to take projects through from original concept and on to prototype, testing and volume production. Technical advice is available throughout the process to ensure overall performance objectives are achieved. Hodgson & Hodgson is able to interface with most popular CAD Modelling Packages via e-mail or through more traditional means.

Data Sheet
2007 Issue 02

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Operating Temperature

Base materials are dimensionally stable up to the following temperatures:

Glass fibre	-	230°C
Resinated cotton	-	180°C
Polyester fibre	-	90°C

Fire Performance

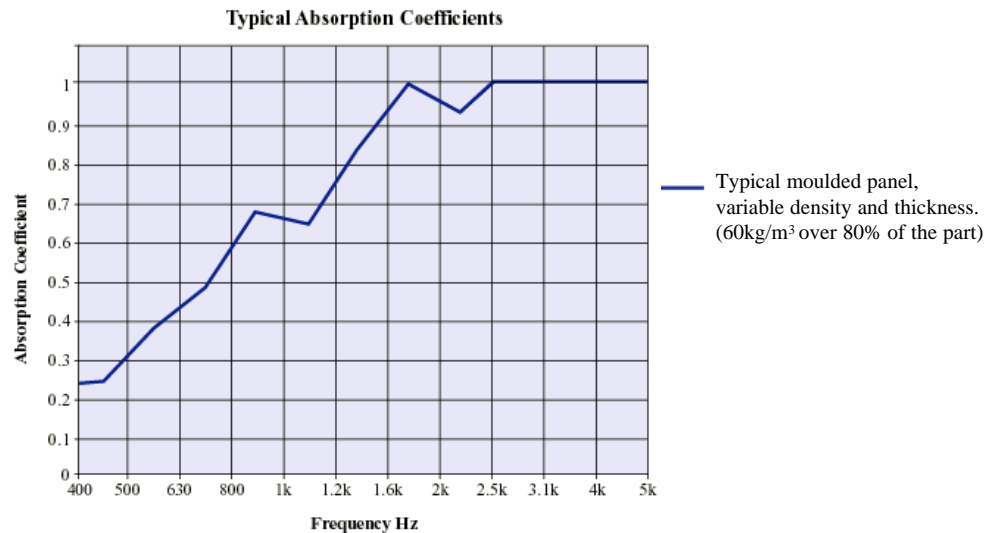
Moulded Interior Trim Panels meet the requirements of FMVSS 302 / ISO3795 (All Grades).

Thermal Conductivity

Polyester fibre	-	0.037 W/mK @ 10°C
Glass fibre	-	0.040 W/mK @ 10°C

Acoustic Performance

Moulded Interior Trim Panels can be manufactured with varying thicknesses and densities across the component to provide a high degree of sound absorption without



Dimensions and Density

Base Material	*Length mm	*Width mm	**Thickness mm	***Density kg/m ³
Glass Fibre	Up to 2200	Up to 1200	From 3 to 25	From 75 to 630
Resinated Cotton	Up to 2200	Up to 1300	From 3 to 15	From 75 to 500
Polyester Fibre	Up to 2200	Up to 1300	From 3 to 25	From 60 to 200

- * Subject to depth of draw
- ** Subject to shape and density
- *** Subject to overall size and shape

Permanence

Moulded Interior Trim Panels are strong, durable, dimensionally stable and shock resistant. The fibres are water repellent, odourless and do not sustain micro-organisms, fungi or bacteria.

Chemical Resistance

Moulded Interior Trim Panels are resistant to acids, salts and hydrocarbons. Light stains may be cleaned with a damp cloth or proprietary automotive interior cleaning product.

For Further Information

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