

## PRODUCT TECHNICAL DATA - ZOUCHeousti FR SUPER

|  |   |   |
|--|---|---|
| <b>PRODUCT</b>                                       | : | Open Cell impregnated polyurethane foam   |
| <b>DESCRIPTION</b>                                   | : | A flexible polyurethane foam which offers excellent sound absorption coupled with exceptional fire retardant properties. ZOUCHeousti FR SUPER offers fire protection which is second to none, and does not melt or produce burning particles. Under attack by fire, a stable carbon char is formed protecting any underlying material. These properties are not effected by dust or ageing.                         |
| <b>APPLICATIONS</b>                                  | : | ZOUCHeousti FR SUPER is extensively used in many sound absorbing and thermal insulating applications, particularly in the heating and ventilation and air conditioning industries. The foam can be laminated to a range of substrates and hence is suitable for many uses, such as: duct lining, machinery cladding and enclosures, wall padding and many automotive, aviation, nautical and building applications. |
| <b>PROPERTIES</b>                                    | : |   |
| <b>COLOUR</b>  | : | Black   |
| <b>DENSITY (Kg/m<sup>3</sup>)<br/>(BS 443 PI M2)</b> | : | 80 - 105  |
| <b>HARDNESS (N)</b>                                  | : | 180   |
| <b>TENSILE STRENGTH<br/>(Kpa) (BS4443 PI H3A)</b>    | : | > 70  |
| <b>COMPRESSION SET<br/>(BS 443 PI H6 75.1)</b>       | : | < 25%   |
| <b>WORKING TEMP<br/>RANGE ( C)</b>                   | : | -40 to +120   |

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### FIRE TEST PERFORMANCE

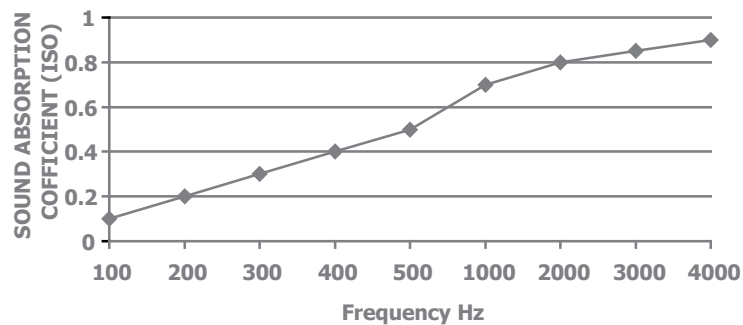
|  |   |                                    |
|--|---|------------------------------------|
| <b>FMVSS302</b>                            | : | Self extinguishable / no burn rate |
| <b>BS 4735</b>                             | : | Char length 4 to 5mm               |
| <b>ASTM 1692: 1974</b>                     | : | Resists Ignition                   |
| <b>BS 476 Pt 6</b>                         | : | Pass                               |
| <b>BS 476 Pt 7</b>                         | : | Class 1                            |
| <b>BUILDING REGULATIONS (1991 B app A)</b> | : | Class "O"                          |
|  |   | Class M1 (France)                  |
|  |   | Class B1 (Germany)                 |
| <b>UL94</b>                                | : | Pass rating 94 HF1                 |
| <b>OXYGEN INDEX (BS 2782)</b>              | : | > 40%                              |
| <b>CAA8/FAA</b>                            | : | Passes to all grades               |
| <b>SMOKE MAX OBSTRUCTION</b>               | : | To BS 5111 55                      |
| <b>OTHER PROPERTIES</b>                    | : |                                    |
| <b>THERMAL CONDUCTIVITY</b>                | : | 0.050 to 0.065 W/MK                |
| <b>SHEET SIZE (mm)</b>                     | : | 2000 x 1000                        |
| <b>THICKNESS (mm)</b>                      | : | 6,12,20,25,30,50                   |

N.B. The foam exhibits anti-static and fungicidal properties.

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### ACOUSTIC PERFORMANCE

#### SOUND ABSORPTION



TEST SAMPLE : 25mm Thick

Please note: Further sound absorption data is available on request i.e. Tabulated data to BS 3638 for 12mm, 25mm and 50mm material.