

## Product Data Sheet TECU® Brass\_bond FR

Stand: 02.07.2010

| Physical and Mechanical Properties of Composite Sheet |                                     |
|---|-------------------------------------|
| Properties  | Value                               |
| Face Material   | TECU® Brass (CuZn30)                |
| Total composite sheet thickness                       | 4.0 mm                              |
| Thickness of copper outer face                        | 0.3 mm                              |
| Thickness of copper inner face                        | 0.3 mm                              |
| Core thickness  | 3.4 mm                              |
| Modulus of Elasticity                                 | 16.137 ± 618 N/mm <sup>2</sup>      |
| Yield Strength  | 29.76 +/- 1.66 N/mm <sup>2</sup>    |
| Ultimate Tensile Strength                             | 63.23 ± 0.34 N/mm <sup>2</sup>      |
| Flexural Rigidity                                     | 0.2102 +/- 0.031 cm <sup>4</sup> /m |
| Shear strength  | 2.207 ± 0.032 kN cm <sup>2</sup> /m |

| Technical Specification |   |                                   |                     |
|-------------------------|---|-----------------------------------|---------------------|
| Item                    | Properties  | Value<br>FR Cu                    | Test Method         |
| 1                       | Dimensional Tolerances (mm)<br>- thickness<br>- width<br>- length   | 0/ + 0.2<br>0/ + 2.5<br>0/ + 10.0 |                     |
| 2                       | Squareness Tolerance between diagonals (mm)   | ± 3.0                             |                     |
| 3                       | Panel mass (kg/m <sup>2</sup> )   | 10.68 ± 10 %                      |                     |
| 4                       | Core density (kg/m <sup>3</sup> )   | 1.640 ± 10%                       | UNE EN ISO 1183-1   |
| 5                       | Flexural rigidity, average value in perpendicular and parallel direction, MPa   | ≥ 100                             | PN-EN ISO 178:2006  |
| 6                       | Modulus of elasticity when bending, average value in perpendicular and parallel direction, MPa                        | 17.000                            |                     |
| 7                       | Bond strength between core and surface, tear-off method: average value in perpendicular and parallel direction (N/mm) | ≥ 600                             | ASTM-D-1781         |
| 8                       | Core burning heat PCS, MJ/kg  | ≥ 13.16                           | PN-EN ISO 1716:2004 |

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Information within this paper might be preliminary and subject to changes due to technical advance.  
Please pay attention to the separate important application and processing instructions of this TECU® product.