

Technical Datasheet /Issue 01/09

**Product properties:**

|   |  |
|---|--|
| <b>application:</b>                                 | KAPA® frame is a PUR rigid foam – sandwich for frame systems   |
| <b>panel construction:</b>                          | Sandwich element with PUR – rigid foam core<br>aluminium-reinforced coating with with plastic-coated cellucarton covering layers                             |
| <b>behaviour in external conditions:</b>            | The sheet is not flame retardant.<br>The Foam shows no waterabsorption, only in cut cells.<br>The layer is not resistant against water/humidity              |
| <b>chemical effekts:</b>                            | Resistant against the most solvents and glues. For glues with toluol please make trials.<br>The Top-sheet is resistant against commercial adhesives and dyes |
| <b>behaviour against thermal effekts:</b>           | Operating temarature<br>Continuously $T_d = -20$ up to $100\text{ °C}$<br>Short-term $T_k =$ up to $160\text{ °C}$   |
| <b>additional compiance to following standards:</b> | Certificate ISO 9001:2000<br>ISO 14001:2004<br>and OHSAS 18001:1999<br>Development, manufacturing and sales of lightweight boards and PUR-formed parts       |

## Technical Data and Tolerances

| attribute                                   | value         |        | tolerance | unit              | method     |
|---|---------------|--------|-----------|-------------------|------------|
| thickness                                   | 13,0          | 17,0   | ± 0,6     | mm                | KAPA-Meth. |
| density                                     | 45            | 45     | ± 5       | kg/m <sup>3</sup> | KAPA-Meth. |
| weight per unit area<br>(Theoretical)       | 1200          | 1380   | -         | g/m <sup>2</sup>  | KAPA-Meth. |
| fire certification                          | B 3           |        |           |                   | DIN 4102   |
| compressive strength at<br>10 % compression | ~ 0,51        | ~ 0,52 | -         | N/mm <sup>2</sup> | DIN 53421  |
| memory effect<br>10% compression set        | ~ 95          | ~ 95   | -         | %                 | DIN 53421  |
| elastic moduls<br>(E-Modul)                 | ~ 11,2        | ~ 14,2 | -         | N/mm <sup>2</sup> | DIN 53421  |
| bending strength                            | ~ 2,1         | ~ 1,9  | -         | N/mm <sup>2</sup> | DIN 53423  |
| closed cells strukture                      | > 95          |        |           | %                 | KAPA-Meth. |
| PAT* (Photographic<br>Activity Test)        | passed        |        |           | -                 | ISO 18916  |
| pH-value                                    | 7,2 (neutral) |        |           | -                 | DIN 53124  |

\* IPI Rochester

|                  |                              |             |
|------------------|------------------------------|-------------|
| thickness        | <b>13,0</b>                  | <b>17,0</b> |
| sizes in mm      | <b>Deliverey: On pallets</b> |             |
| <b>2900x1450</b> | <b>110</b>                   | <b>90</b>   |

Additional information at: <http://www.alcankapa.com>

All data are based on our knowledge and experience. It's intended as an advice withoutlegally binding. 05/2009● Alcan Kapa GmbH Kiefernweg 10 ● D-49090 Osnabrück