

## ALLUMINIO COMPOSITO ADVIBOND

### PANEL DIMENSIONS

|                 |                         |                         |                         |
|-----------------|-------------------------|-------------------------|-------------------------|
| Panel Thickness | 2mm                     | 3mm                     | 4mm                     |
| Standard Width  | 1220/1250/1500/<br>2000 | 1220/1250/1500/<br>2000 | 1220/1250/1500/<br>2000 |

### DIMENSION TOLERANCES

|                                 |              |                  |
|---------------------------------|--------------|------------------|
| Length                          | ASTMD5625-02 | ±3mm             |
| Width                           |              | ±2mm             |
| Thickness                       |              | ±0.2mm           |
| Diagonal                        |              | ≤3mm             |
| Edge nonstraightness<br>warpage |              | ≤1mm/m<br>≤5mm/m |

### SURFACE PROPERTIES(POLYESTER)

| Testing item                          | Test method            | Standard index |
|---------------------------------------|------------------------|----------------|
| Coating thickness                     | 1 coating              | ≥16 um         |
| Gloss tolerance                       | ASTM D532(60°)         | ≤10            |
| Pencil hardness                       | ASTM D3363-00          | ≥H             |
| T-Bending                             | ASTM 4145              | 2T no rift     |
| Adhesive (boiling water)              | 98±2°C,2hours          | No pick off    |
| Impact resistance                     | ASTM<br>D2794(30kg.cm) | No cracking    |
| Chemical resistance                   |                        |                |
| 1) muriatic acid 2% HCL 24 hrs        | ASTM D308              | No change      |
| 2) Sodium hydroxide 2% Naoh 24<br>hrs | ASTM D308              | No change      |
| Solvent resistance                    | ASTM<br>D2248(200      | No change      |

### PRODUCT PROPERTIES

| Testing items                   | Testing Method | Testing Result   |
|---------------------------------|----------------|--|
| Weight                          |                | 3mm x Alu 0.2~0.3mm<br>about 3.9~4.2(kg/m <sup>2</sup> )<br>4mm x Alu 0.2~0.4mm<br>about 5.0~5.5(kg/m <sup>2</sup> ) |
| Outdoor temperature resistance  | ASTM D1654     | -40°C~60°C   |
| Thermal deformation temperature | ASTM D648      | More than 85°C   |
| Thermal conductivity            | ASTM 976       | ≤0.5W/m.k  |
| Adhesive strength               | ASTM D903      | 4.0 N/mm   |
| Sound attenuation               | ASTM E413      | (Panel thickness 4mm)25  |
| Punching Shear resistance       | ASTM D732      | 32 N/ m <sup>mm</sup> <sup>2</sup>   |
| Minimum bending radius          | ASTM D790      | 200mm  |

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