

## BCP (POLYESTER COATING) SHEET SPECIFICATIONS

### PANEL DIMENSIONS

Panel Thickness 2mm / 3mm / 4mm  
Aluminium Thickness 0.3mm  
BCP Light 0.21mm Skin  
Sheet Weight 3.17m<sup>2</sup>.k / 4.27m<sup>2</sup>.k / 5.10m<sup>2</sup>.k

### DIMENSIONAL TOLERANCES

Thickness  $\pm 0.1$ mm  
Width -1mm ~ +2mm  
Length -1mm ~ +3mm  
Diagonal  $\leq 3$ mm  
Thermal Expansion  $\leq 4.00 \times 10^{-5}$  / oC  
Aluminium Thickness  $\pm 0.02$ mm

### SURFACE PROPERTIES

Paint Thickness (micron)  
Pencil Hardness  
Toughness of coating  
Impact Strength  
Boiling Water Resistance  
Acid Resistance  
Alkali Resistance  
Solvent Resistance  
Cleaning Resistance  
Peel Strength 180o  
Temperature Resistance  
 $\geq 20$  HB  
 $\leq$ HB  
50kg . cm<sup>2</sup>, Excellent, without crack  
Boiling for  $\geq 2$ hrs in 99oC $\pm 1$  without change  
No Change (Immerse in 2% HCl 24hrs)  
No Change (Immerse in 2% NaOH 24hrs)  
No Change (Cleaned x100, with Xylene by 1kgf)  
No Change (Immerse in 20# Engine Oil 24hrs)  
 $\geq 5.8$  N/mm  
50 to 90oC

### PRODUCT PROPERTIES (2mm / 3mm / 4mm)

Sound Absorption NRC  
Sound Attenuation Rw db  
Water Absorption % by Vol.  
Thermal Performance  
0.05  
27 / 28 / 29  
0.01  
Thermal Deforming  $\geq 105$ oC - ASTM D 648-01  
Core Composition  
Thermal Resistance 0.033 (m<sup>2</sup>.k) / W  
Thermal Conduction Coefficient 5.31W / m<sup>2</sup>.k  
High Pressure LDPE Polyethylene