

Product Technical Data Sheet

Description

Qualibond aluminum composite material comprised of two, pre-painted 0.12mm~0.30mm aluminum panels bonded to a solid polyethylene core. It's lighter in weight and more durable than both MDO and aluminum, plus it resists scratching and denting better than wood panels. The finish is ready for vinyl, screen print inks, paint, cutting, or routing.

Product Properties

Weight (Kg/m ²)	3.3-4.9
Sound Absorbtion NRC Sound Attenuation Rw db	0.05 24
Water Absorbtion % by volume	0.01
Thermal Performance R Values	0.0057
Core	LDPE
Composition Flammability	B2

Panel Dimensions

Panel Thickness (mm)	3
Aluminum Thickness (mm)	0.12-0.30mm
Standard Sizes:	1220*2440mm

Product Code
QB-XXX

Dimensional Tolerances

Thickness (mm)	-0.2~ + 0.2
Width (mm)	±2
Length (mm)	±3
Diagonal (mm)	±5
Thermal Expansion	2.4mm/m @ 100°C Temp Difference
Aluminum Thickness (mm)	±0.02

Surface Properties

Paint Thickness (micron)	16
Pencil Hardness	>HB
Toughness of Coating	3T
Temperature Resistance	-50°C to +80°C
Impact Strength (kg cm ²)	42
Boiling Water Resistance	Boiling for 2 hours without change
Acid Resistance	Immersed surface in 2% HC1 for 24hrs without change
Alkali Resistance	Immersed surface in 2% NaOH for 24hrs without change
Oil Resistance	Cleaned 100 times with Dimethylbenzene without change
Solvent Resistance	Immersed surface in 20# engine oil for 24hrs without chang
Cleaning Resistance	>1000 times without change
Peel Strength	>5 Newton/mm