



proBOND Premium Aluminium Composite Material

Product Description:

proBOND Premium Aluminium Composite is the highest quality panel for the fabrication of three dimensional signage. proBOND Premium comes in a full range of white, colours, brushed, mirror and new High Metallic Silver. The optimised Matt White Digital Paint ensures excellent ink adhesion and quality print reproduction, even at high speeds. Manufactured to exacting standards, proBOND Premium comes with a 10 year guarantee (5 years for 3003 alloy anodised finishes) and has numerous accreditations to ensure compliance to all recognised standards.

Panel Dimensions

Panel Thickness:	3mm
Aluminium Skin Thickness:	0.3mm
Weight:	4.3kg/m ²
Standard sizes:	1,220 x 2,400mm, 1,250 x 2,500mm and 1,500 x 3,050mm

Dimensional Tolerances

Thickness:	±0.2mm
Width:	±2mm
Length:	±3mm
Diagonal:	≤5mm
Warp:	≤3.2
Thermal Expansion:	2.4mm/m (100 °C Temp difference)
Colour Difference:	White - $\Delta E \leq 0.5$ Metallic - $\Delta E \leq 1.0$ Colours - $\Delta E \leq 1.5$

Surface Properties

Paint Thickness (Micron):	20
Pencil Hardness:	2H
Surface Hardness:	45
Lacquering:	Polyester
Temperature Resistance:	-50 °C to +80 °C
Gloss (Initial value):	30% - 90%
Boiling Water Resistance:	Boiling for 2hrs without change
Acid Resistance:	Surface immersed in 2% HCl for 24hrs without change
Alkali Resistance:	Surface immersed in 2% NaHO for 24hrs without change
Oil Resistance:	Surface immersed in 20# engine oil for 24hrs without change
Solvent Resistance:	Cleaned 100 times with Dimethylbenzene without change
Peel Strength 180°:	> 5.0 Newton/mm
Product Bending Strength:	133.59 (MPa)
Product Shearing Strength:	27.75 (MPa)

The estimated durability is based on accelerated ageing tests and refers to a vertical exposure under middle European climates. The durability of the product depends on the substrate's preparation, the atmospheric conditions and the environmental influence. Exposure to extreme conditions (tropical climate, high humidity, high UV-light exposure or polluted areas) can decrease the durability in a dramatically way. All our products are subjected to a strict quality control by our QM-System, which is in accordance with ISO/TS 16949, DIN EN ISO 9001 and DIN EN ISO 14001. The information is based on our present knowledge and our experience. Because of the large number of possible influences during the processing and application of our products, this information does not release the user from the obligation to conduct his own tests and trials. Users of our products are responsible for observing any patent rights that may exist and for following existing regulations. Our applications technology section is always pleased to give advice about suitability tests on original materials.

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Description	Stock Code	Sheet size	Thickness	Aluminium Thickness
ACMPW proBOND Premium Signage Grade 5005 alloy Aluminium Composite White Gloss / Matt	ACMPW-3000-2500-1250	2,500 x 1,250mm	3mm	0.30mm
	ACMPW-3000-3050-1500	3,050 x 1,500mm	3mm	0.30mm
ACMPB proBOND Premium Signage Grade 5005 alloy Aluminium Composite Black Gloss / Matt	ACMPB-3000-2440-1220	2,440 x 1,220mm	3mm	0.30mm
	ACMPB-3000-3050-1500	3,050 x 1,500mm	3mm	0.30mm
ACMPL proBOND Premium Signage Grade 5005 alloy Aluminium Composite Blue Gloss / Matt	ACMPL-3000-2440-1220	2,440 x 1,220mm	3mm	0.30mm
	ACMPL-3000-3050-1500	3,050 x 1,500mm	3mm	0.30mm
ACMPR proBOND Premium Signage Grade 5005 alloy Aluminium Composite Red Gloss / Matt	ACMPR-3000-2440-1220	2,440 x 1,220mm	3mm	0.30mm
	ACMPR-3000-3050-1500	3,050 x 1,500mm	3mm	0.30mm
ACMPY proBOND Premium Signage Grade 5005 alloy Aluminium Composite Yellow Gloss / Matt	ACMPY-3000-2440-1220	2,440 x 1,220mm	3mm	0.30mm
	ACMPY-3000-3050-1500	3,050 x 1,500mm	3mm	0.30mm
ACMPG proBOND Premium Signage Grade 5005 alloy Aluminium Composite Green Gloss / Matt	ACMPG-3000-2440-1220	2,440 x 1,220mm	3mm	0.30mm
	ACMPG-3000-3050-1500	3,050 x 1,500mm	3mm	0.30mm
ACMPI proBOND Premium Signage Grade 5005 alloy Aluminium Composite Ivory Gloss / Matt	ACMPI-3000-2440-1220	2,440 x 1,220mm	3mm	0.30mm
	ACMPI-3000-3050-1500	3,050 x 1,500mm	3mm	0.30mm
ACMPS proBOND Premium Signage Grade 5005 alloy Aluminium Composite High Metallic Silver	ACMPS-3000-2500-1250	2,500 x 1,250mm	3mm	0.30mm
	ACMPS-3000-3050-1500	3,050 x 1,500mm	3mm	0.30mm
ACMPD proBOND Premium Signage Grade 3003 alloy Aluminium Composite Brushed Silver	ACMPD-3000-2500-1250	2,500 x 1,250mm	3mm	0.30mm
	ACMPD-3000-3050-1500	3,050 x 1,500mm	3mm	0.30mm
ACMPM proBOND Premium Signage Grade 3003 alloy Aluminium Composite Mirror	ACMPM-3000-2500-1250	2,500 x 1,250mm	3mm	0.30mm

Certification

Test / Classification	Certification Number	Accreditation Body
ISO9001:2008	016SH15Q20099R1M	BCC
ISO14001:2004	016ZB15E20050R1M	BCC
UL	20141119-E350268	UL LLC
CE	CPC13/041661	CPC
RoHS	CANML1201494302	SGS
REACH	CANML1312451103, CANML1312451101	SGS
FDA	CANMLC1304320201	SGS
EN13501	GZMR120509330, GZMR120509331, GZMR120509332, GZMR130914391	SGS
ASTM	SP110602979	SGS
BS476 Part 6 and 7 (Class 1 and 0)	SHAM20150300490-1	TUV