

Signbond®



Signbond®

Using a special high-level polyester paint, Signbond comes with a high glossy surface one side and matt finish on the other. The aluminium sides are .2mm on our 3mm sheets which provides for an extremely flat, flawless, smooth surface that is lightweight.

Signbond can be sculptured, folded, rolled without deformation, wrinkling or delaminating and has an easy peel protective film.

Product Features

- Super peeling strength
- Excellent surface flatness and smoothness
- Weather, corrosion and pollutant resistance
- Ink adhesion properties
- Impact resistance
- Light weight and easy to process
- Easy to maintain

Product Applications

- Signage
- Shop fitting and design
- Manufacture of point of sale display
- Trade stand designs
- Transport
- Partitioning, wall linings and suspended ceiling
- Industrial application



Tel. 02 8038 2000 Fax. 02 9417 6169 Email. sales@allplastics.com.au

Address. Unit 20/380 Eastern Valley Way, Chatswood, NSW 2067 AUSTRALIA. www.allplastics.com.au

Digital Signbond®



Digital Signbond®

Better panel, Better Printing.

A brand new solution for flat bed printing. Signbond Digital has been developed with a special coating which is applied to one side of the panel providing vastly improved ink adhesion.

The complete flatness of Signbond makes the surface and your design look absolutely perfect. Digital Signbond can be machined after printing, with no cracks or damage to the surface.

Product Features

- Great ink absorbability with no surface pre-treating prior to printing
- Extremely flat
- Good rigidity
- Super peeling strength
- Excellent surface flatness and smoothness
- Weather, corrosion and pollutant resistance
- Impact resistance
- Light weight and easy to process

Product Applications

- Large scale outdoor prints
- Exhibition and indoor signage
- POS posters or decorative murals



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Material Safety Data Sheet

Aluminum Composite Panel

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Aluminum Composite Panel
Product Code: ALS02 / ALS03 / ALS04 / ALS06 / ALSL / ALS-PV

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation: Preparation

Ingredients Name	Content/%	CAS NO.
Aluminum	15%	7429-90-5
Polyester paint	1%	-
Low density polyethylene	80%	-
PE Protective film	2%	-
Adhesive film	2%	-

Note: See Section 8 of MSDS for exposure limit data for these ingredients.

The preparation is not classified as dangerous under the Hazard Communication Standard

This MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product.

3. HAZARDS IDENTIFICATION

Emergency Overview

Solid, no odor, non-hazardous

Primary Route(s) of Exposure: Eye contact, skin contact

Potential Health Effects

Acute (short term): May cause irritation or scratch the surface of the eye/skin.



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Chronic (long term): There is no known health effects connected with long term use or contact with this product. See Section 11 of MSDS for more toxicological data.

Potential Environmental Effects: The material should pose no significant hazard to the environment.

4. FIRST AID MEASURES

Skin contact: Wash affected area with soap and water. If symptoms develop seek medical attention.

Eye contact: If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. If symptoms develop seek medical attention.

Inhalation: In case of inhale, move to fresh air immediately. Get medical aid if symptoms persist.

Ingestion: In case of swallow, never give anything by mouth if victim is semi-conscious or unconscious. Immediately wash out mouth with water. Seek IMMEDIATE medical attention.

Note to physicians: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: Not available

Explosion limits:

Lower: Not available

Upper: Not available

Extinguishing Media: use agent most appropriate to extinguish surrounding fire

Fire & Explosion Hazards: There is no fire or explosion hazard of this product.

Fire Fighting Equipment: As in any fire, wear a self-contained breathing apparatus in pressure-demand, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Sweep up, and then place into a suitable container for disposal.



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7. HANDLING AND STORAGE

- Handling:** Wash thoroughly after handling. Avoid contact with eyes. Wash clothing before reuse.
- Storage:** Store in a suitable container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

- Engineering controls:** Provide sufficient ventilation to keep airborne levels below the exposure limit. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
- Personal Protection:**
- Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.
- Skin:** Protective garments not normally required. Wear gloves if necessary.
- Clothing:** Protective garments not normally required.
- Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA or approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Exposure guidelines

Aluminum CAS# 7429-90-5

United States OSHA: 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Solid
- Color:** According to product spec. (Red, white, blue)
- Odor:** None
- Vapour Pressure:** Not available
- PH:** Not available
- Density (Water= 1):**
- | | |
|------------------------|------|
| Aluminum: | 2.7 |
| Low density polyester: | 0.93 |
- Ignition temperature:** Not available
- Explosion limits:**
- | | |
|--------|---------------|
| Lower: | Not available |
| Upper: | Not available |



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Boiling Point:	Not available
Freezing point:	Not available
Flash Point:	Not available
Melting point:	Not available
Solubility in Water:	Not available
Viscosity:	Not available

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and handling.

Materials to avoid: Strong oxidizing agents, strong acids and strong alkalis.

Conditions to avoid: High temperature

Hazardous decomposition products: oxides of carbon, aluminum oxide, aluminum fumes

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity data

No toxicity data available for this product.

Other information:

IARC: not listed

12. ECOLOGICAL INFORMATION

Ecotoxicity:

No ecotoxicity data available.

Mobility: Not determined.

Biodegradability: No data available.

Bioaccumulation: Not determined

13. DISPOSAL CONSIDERATIONS

Dispose of waste according to relative regulations. Contact a specialist disposal company or the local authority or advice.



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14. TRANSPORT INFORMATION

The preparation is not classified as dangerous

Proper shipping name: NA
Hazard class: Not regulated
Packing group: NA
Identification number: NA

15. REGULATORY INFORMATION

US Federal

TSCA

CAS# 7429-90-5 is listed on the TSCA Inventory.

16. OTHER INFORMATION

Issue Date: Oct. 21, 2010

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event we shall be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

*** END OF MSDS ***

Product Data Sheet						
	Standard	Unit	2mm	2mm	3mm	3mm
Thickness of Aluminium	DIN 1784	mm	0.3	0.2	0.3	0.2
Aluminium thickness deviation	DIN 1784	mm	±0.02	±0.02	±0.02	±0.02
Weight		Kg/m ²	3.44	3.14	4.62	4.32
Technical Properties						
Polymeric membrane				45 Microns		
Dimension Deviation	Length	GB/T 22412-2008	mm	±2		
	width		mm	±2		
	Thickness		mm	±0.2		
	Diagonal		mm	≤5		
	Warp		mm/m	≤3.2 (put the panel on the glass platform)		
PE Coating Thickness			µm	20±2		
Pencil Hardness				≥HB		
Luster Deviation				≤10		
Coating Toughness				≤2T		
Adhesive				no less than Grade 1 (circle method)		
180° Peel Strength			N/mm	≥3.0		
Color Variation Tolerance	White			ΔE≤0.5		
	Metallic			ΔE≤1.0		
	Colors			ΔE≤1.5		
	Brushed/Mirror/Marble/Wooden			close to sample		



Test Report

No.: GLHGR070701139AT

Date: JUL 25, 2007

Page 1 of 3

SHANGHAI ALUSTRONG CONSTRUCTION MATERIALS CO. LTD
1501 LINGFENG BUILDING 86#, XINSHI ROAD, SHANGHAI, P.R.CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as Aluminum Composite Panel

SGS Ref No. : GLHGR070600937AT
Sample Receiving Date : JUN 27, 2007
Testing Period : JUN 27, 2007 TO JUL 02, 2007

Test Requested : To determine the Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs (Polybrominated Biphenyls) & PBDEs (Polybrominated Diphenylethers) content in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.
(5) Determination of PBBs and PBDEs by GC-MS.

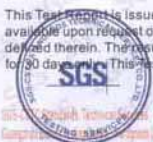
Test Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.

Vincent Chow

Vincent Chow
Auto Project Manager

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	15	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of PBBs		N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of PBDEs (Mono to Nona)(Note 4)	(5)	N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5
Sum of PBDEs (Mono to Deca)		N.D.	-

Test Part Description:

No.1 Silver-grey coated metal & It-grey coated metal w/ black plastic interlayer (mixed)

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. "-" = Not regulated

Remark : 1. The sample(s) was/were analyzed on behalf of the applicant as mixing whole/part sample in one testing. The result(s) in report means average of whole sample. The result(s) will be different obviously if the sample(s) was/were tested as requirement of RoHS, and result(s) may be higher than that of report. The applicant will take the responsibility of all discrepancy and risk.

2. This test report is to supersede test report number GZ0706090157/CHEM.

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Sample photo:



SGS authenticates the photo on original report only

*** End of Report ***

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