

**PRODUCT
PORTFOLIO**

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SPECIALITY RANGE

**ANTI STATIC
LAMINATE**

**POST FORMING
LAMINATE**

**ANTI-BACTERIAL &
ANTI-FUNGAL
LAMINATE**

**CHALK & MARKER
BOARD**



ELECTROSTATIC DISSIPATIVE LAMINATE

Electrostatic Dissipative laminates (ESD) diffuse static electricity to protect electronics and other static-sensitive devices from electric charges that could cause damage during manufacturing or assembly.

APPLICATIONS

- Static-sensitive electronic components manufacturing workstations
- Hospitals
- Medical Facilities
- Technical Departments/BPO Offices
- Science Laboratories
- Mobile Manufacturing Units
- Pharma Labs
- Electronic Units

FEATURES

Low electrical resistance

Absolute charge drainage and zero voltage suppression

ESD is post formable but will require a larger radius than standard laminate

Resistant to most common solvents, hot solder and fluxes.

ESD is guaranteed to maintain its static control properties.



SIZE 1 : 1220 x 2440 mm

SIZE 2 : 1300 x 3050 mm

Available in any color
depending upon order quantity

POST FORMING LAMINATE

Post Forming Laminate range has been exclusively designed for usage on vertical and horizontal interior surfaces where the laminate is required to roll in a simple radius over the edges of a substrate. With added flexibility, malleability and excellent thermoforming properties for forward and reverse bending applications, Post Forming Laminate enhances the decorative property of the edges of any regular laminate since it gives no seams around corners and a smooth, evenly laminated surface.

These are fully cured Post Forming laminates inheriting and exhibiting exactly the same properties as general purpose laminates. Manufactured by using a controlled reaction process in which the resin is allowed to cure fully but the reaction is controlled in such a way that even extra heating will not have an effect on its post forming properties.

APPLICATIONS

- Shutters
- Countertops
- Furniture tops
- Executive tables
- Modular office systems
- Computer workstations
- Kitchen cabinet doors & shutters
- Storage cabinet doors
- Shelving systems



FABRICATION

- **SAWING:** To avoid chipping, it is important that the saw blade teeth cut into the decorative face.
- **CIRCULAR SAWING:** To avoid vibration that causes chipping, make sure to provide support to the material near the point of blade contact.
- **EDGE FINISHING:** Belt sanders may be used to push the self-edge before the laminate top is applied.
- **ADHESIVES:** Special Post Forming Adhesive is recommended.
- **PROTECTIVE FILM:** The protective film should be removed as soon as the application is complete. Else exposure to strong lights may cause a pale residue and make it difficult to remove the protective film.

SIZE 1 : **1220 x 2440 mm**

SIZE 2 : **1300 x 3050 mm**

THICKNESS: **0.6 mm** onwards

Available in any color
depending upon order quantity

ANTI-BACTERIAL & ANTI-FUNGAL LAMINATE

Anti-bacterial & Anti-fungi Laminate is intended for application where there is a need for additional protection of the surface against bacteria/fungi. A very special resin formulation is applied over decorative surface paper to achieve high degree of bacteria growth resistances. The decorative paper is impregnated with the special Melamine resin and assembled with several layers of phenolic resin treated kraft paper and pressed under 90Kg/sq cm specific pressure and at about 150°C temp for about 30 to 40 min.

APPLICATIONS

- Households
- Bathrooms
- Kitchens
- Toilets
- Public buildings
- Cafeteria
- Swimming pools
- Gym/fitness facilities
- Changing rooms
- Hospitals/operational rooms
- Pathological labs
- Nursing home
- Medical research facilities



FEATURES

- Lab determination of Anti-Bacterial Activity using ISO 22196 shows 99.99 % reduction in bacteria within 24 hrs of contact.
- The Anti-Bacterial substances used are free from halogen substances.
- The Anti-Bacterial properties are effective as long as the product life.
- The laminate is easier to maintain as frequent cleaning is not required. Even the requirement of disinfectants is quite less.
- The even distribution of Anti-Bacterial substances ensures effectiveness throughout the Laminate surface.
- The Anti-Bacterial properties meet the standards of ISO 22196 - 2007, which is based on ZIS Z 2801:2010

CHALK & MARKER BOARD

Stylam Chalk/Marker Board are made with special type of synthetic polymer which imparts durability to surface with easy cleaning of dry erase markers or wet erase markers. Chalkboard Laminate is the perfect solution for any space or application that demands a durable and affordable writing surface, and unlike other chalkboard surfaces, it requires no special maintenance.

Marker Board Laminate provides absorbent, dry erase compatible instant messaging surface suitable for variety of applications for board rooms, schools, clinics & hospitals. These laminates have non-porous Glossy white laminate surface which imparts excellent properties with special marker pens.

APPLICATIONS

- Office meeting rooms
- School class rooms
- Message boards for patients
- Other work environments
- Memo boards
- Athletic facilities
- Cafeteria menu boards



AVAILABLE SIZES

1220 x 2440 mm

AVAILABLE COLOURS

Green (Chalk Board)

White (Marker Board)

AVAILABLE THICKNESS

0.8 mm

TECHNICAL PROPERTIES

High Pressure Laminates (HPL) as per EN 438-2 & 3 : 2016, are available in the standard HGS/VGS range.

| SL. NO. | PROPERTIES | TEST METHOD | ATTRIBUTES OF PERFORMANCE | UNIT OF MEASUREMENT | RESULTS (AS PER EN 438-2 & 3) |
|---------|--|---------------------------|--|--------------------------------------|-------------------------------|
| | | | EN-438 Laminate Classification | | HGS / VGS |
| 1 | SURFACE QUALITY | | | | |
| 1.1 | Surface quality | EN 438-2:2016 (Clause-4) | Spots, dirt and similar surface defects | mm ² /m ² | ≤ 1 |
| | | | Fibres, hairs and scratches | mm/m ² | ≤ 10 |
| 2 | DIMENSIONAL PROPERTIES | | | | |
| 2.1 | Thickness | EN 438-2:2016 (Clause-5) | Thickness tolerance | mm | 0.5≤T<1 : ±0,1 |
| | | | | mm | 1≤T<2 : ±1,5 |
| 2.2 | Size | EN 438-2:2016 (Clause-6) | Length and width | mm | + 10 / - 0 |
| 2.3 | Straightness of edges | EN 438-2:2016 (Clause-7) | Straightness of edges | mm/m | ≤ 1,5 |
| 2.4 | Squareness | EN 438-2:2016 (Clause-8) | Squareness | mm/m | ≤ 1,5 |
| 2.5 | Flatness | EN 438-2:2016 (Clause-9) | Flatness (measured on full-size sheet) | mm/m | 60 |
| 3 | PHYSICAL PROPERTIES | | | | |
| 3.1 | Resistance to surface wear | EN 438-2:2016 (Clause-10) | Wear Resistance - Initial Point | Revolutions | ≥ 150 (HGS) / ≥ 50 (VGS) |
| 3.2 | Resistance to immersion in boiling water | EN 438-2:2016 (Clause-12) | Appearance - Gloss Finish | Rating | ≥ 3 |
| | | | Appearance - Other Finishes | Rating | ≥ 4 |
| 3.3 | Resistance to water vapour | EN 438-2:2016 (Clause-14) | Appearance - Gloss Finish | Rating | ≥ 3 |
| | | | Appearance - Other Finishes | Rating | ≥ 4 |
| 3.4 | Resistance to dry heat (160°C) | EN 438-2:2016 (Clause-16) | Appearance - Gloss Finish | Rating | ≥ 3 |
| | | | Appearance - Other Finishes | Rating | ≥ 4 |
| 3.5 | Dimensional stability at elevated temperatures | EN 438-2:2016 (Clause-17) | Cumulative dimensional change - | Longitudinal % | ≤ 0,55 (HGS) / ≥ 0,75 (VGS) |
| | | | | Transversal % | ≤ 1,05 (HGS) / ≥ 1.25 (VGS) |
| 3.6 | Resistance to Wet Heat | EN 438-2:2016 (Clause-18) | Appearance - Gloss Finish | Rating | ≥ 3 |
| | | | Appearance - Other Finishes | Rating | ≥ 4 |
| 3.7 | Resistance to impact with Small diameter ball | EN 438-2:2016 (Clause-20) | Spring Force | N | ≥ 25 (HGS) / ≥ 15 (VGS) |
| 3.8 | Resistance to cracking under stress | EN 438-2:2016 (Clause-23) | Appearance | Rating | ≥4 |
| 3.9 | Resistance to scratching | EN 438-2:2016 (Clause-25) | Appearance - Smooth Finishes | Rating | ≥ 2 (HGS) / ≥1 (VGS) |
| | | | Appearance - Textured Finishes | Rating | ≥ 3 (HGS) / ≥ 2 (VGS) |
| 3.10 | Resistance to staining | EN 438-2:2016 (Clause-26) | Appearance - Group 1 & 2 | Rating | ≥ 5 |
| | | | Appearance - Group 3 | Rating | ≥ 4 |
| 3.11 | Light fastness (Xenon arc) | EN 438-2:2016 (Clause-27) | Contrast | Grey scale rating | 4 to 5 |
| 3.12 | Density | EN ISO 1183-1 | Density | gm/cm ³ | ≥ 1,35 |
| 4.1 | Anti-bacteria property | JIS Z 2801: 2010 | Bacteria; Staphylococcue aureus, E.coli and Pseudomonas aeruginosa | Antimicrobial value of evaluation, R | ≥ 2.0 |

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Disclaimer : This Product Technical Sheet gives technical information relevant to the performance of product as tested by STYLAM and External certified testing agencies. STYLAM reserves the right to change product composition and characteristics at any time.

CERTIFICATIONS



CARE & MAINTENANCE

Stylam's range of Laminates can be cleaned with non-abrasive or non-harsh alkaline cleaning agents. Do not use abrasive scourers and cleaners, even those in liquid form, as these may permanently reduce the stain resistance of the surface. These laminates should only be cleaned using a soft, moist cloth or moist chamois and then dried with a soft dry cloth. Before the first use, peel off the protective plastic film and clean the surface to remove any adhesive residue.

Gloss finish Laminate surface:

Suitable for marking with whiteboard markers (not permanent markers). Once dry, these markings can be wiped off using a soft dry board eraser or soft cloth, such as a microfiber cloth. (There is no guarantee that Stylam Magnetic Laminates can always be cleaned so that they are completely free of residue or markings, because the use and quality of marker pen is beyond our control. Please check the recommendations by the manufacturers of the marker pen before use.)

Matt finish Laminate surface:

Suitable for use with marking chalk or liquid chalks. Use a soft dry board eraser or soft cloth to wipe dry board. Due to the matt nature of the surface it cannot always be wiped completely clean in the dry condition. For complete cleaning use a soft moist cloth.

STORAGE: Stylam Laminates must be stored in an area closed off from external conditions, kept dry at room temperature and with a relative humidity around 50–60%. Sheets must be stored horizontally and well supported with evenly spaced supports, at a distance of at least 200mm from the floor.

Protect the stored sheets from:

- moisture or water
- exposure to direct sunlight
- hot air currents
- direct exposure to heat, e.g. light bulbs or other heat sources.

The surface temperature of the laminate sheet should not exceed 70°C



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