

LEXAN™ CLINIWALL™ SHEET

FOR WALL CLADDING WITH HYGIENE

LEXAN™ CLINIWALL™ sheet is a new thermoplastics material solution for clean room surfaces and interior wall cladding applications for public facilities and hospitals. This opaque **non-chlorinated and non-brominated** low-gloss solid sheet delivers **high impact and wear resistance** and can help provide long awaited solutions to customer's need for materials that can meet regulatory and **hygienic standards** while helping to save significant cleaning and maintenance cost, resulting in reduced operation costs. It offers ease of forming and installation.

LEXAN™ CLINIWALL™ sheet complies with the Restriction of Hazardous Substances (RoHS) directive and due to its non-chlorinated and non-brominated fire resistant technology it meets the requirements of the most stringent **fire and smoke standards** obtaining the best rating for a thermoplastic material.

Compared to high pressure laminates, ceramics and steel, LEXAN sheet can significantly lower system costs through consolidation of parts to streamline production, avoidance of secondary operations such as painting and coating, machining and polishing, and lower shipping costs due to its lightweight.

Pre-colored LEXAN CLINIWALL sheet can provide an excellent surface finish for the wall cladding, eliminating the need for painting. This property also helps prevent chipping of the surface if impact occurs.

POTENTIAL BENEFITS:

- Bromine & Chlorine free fire resistant
- **Robust fire rating and excellent smoke performance (B s1 d0)**
- Excellent mechanical and thermal properties
- Distinguishing color capability
- Exceptional recyclability
- **Excellent resistance - to chemicals but also blood and urine**
- Easy to clean and disinfect - withstands repeated cleaning
- High impact strength and scratch resistance - Virtually unbreakable
- Availability in standard and custom colors

COMPARED TO CURRENTLY USED PVC SHEET IT SHOWS:

- Better mechanical and thermal properties
- About 20% lower density
- Much lower smoke toxicity.

COMPLIES WITH:

- European EN 13501-1+A1: 2009 **norm B s1 d0** at 1.2 - 1.7 mm



TYPICAL CLADDING APPLICATIONS

- Hospitals
- Homes for elderly
- Primary care centers
- Clinics
- Sterile/clean rooms
- Laboratories
- Schools
- Kinder gardens
- Public restrooms
- Airports /bus -rail stations
- Sport centers
- Locker rooms
- Restaurant kitchens
- Food storage
- Food refrigeration rooms



PROCESSING

LEXAN™ CLINIWALL™ sheet is available in 1.2-1.7 mm thicknesses and various colors. It's easy to form and install even for existing buildings. Whether it is directly glued on the prefabricated wall or fixed on profiles anchored with mechanical fixing to the brick wall, installation is easy and economical and does not interrupt the activity in the area to be clad. Suitable for thermoforming: corner elements, bumper rails, doorframes.

LEXAN CLINIWALL sheet is suitable for thermoforming. To reach optimal results the materials needs to be heated with sandwich type heating systems to reach uniform heat uptake. Pre-drying of this material is necessary. Pre drying at 100°C for 2 hours /mm thickness.

LEXAN CLINIWALL sheet has a processing window between 160 and 200°C . When forming, a draft angle of 3 degrees should be allowed. Post mold shrinkage is dependent on tool temperature and environmental circumstances, but will typically be in the range of 0.5-0.9%.

For more information on this product, please contact your local SABIC contact.

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