POLYVANTIS

PRODUCT DATASHEET

LEXAN™ CLINIWALL™ AC6200FR SHEET

DESCRIPTION

LEXAN™ CLINIWALL™ AC6200FR sheet for hygienic internal wall cladding. It contains a silver-ion additive which is a known additive to have the potential capability to reduce the growth of microorganisms significantly. The additive is fully distributed throughout the sheet; potential scratches on the surface of the sheet will, under normal circumstances, not affect the presence and the activity of the silver-ion additive throughout the lifetime of the sheet. In addition to good flammability and smoke performance, it offers excellent mechanical properties like impact, stain, blood, and urine resistant combined with ease of processing, making it an excellent candidate for a wide range of applications in industries such interior wall cladding and sandwich panel.

TYPICAL PROPERTY VALUES*

PROPERTY	TEST METHOD	UNITS	VALUE
PHYSICAL			
Density	ISO 1183	g/cm³	1.23
MECHANICAL			
Yield stress 50 mm/min	ISO 527	MPa	>60
Yield strain 50 mm/min	ISO 527	%	6
Nominal strain at break 50 mm/min	ISO 527	%	>100
Tensile modulus 1 mm/min	ISO 527	MPa	2300
Scratch resistance	Pensile Hardness	9H	No scratches
Flexural Strength (2mm/min)	ISO 178	MPa	90
IMPACT			
Izod impact, notched 23°C, 3.0 mm	ISO 180/1A	kJ/m²	10
Izod impact, unnotched 23°C, 3.0 mm	ISO 180/1U	kJ/m²	NB
THERMAL			
Vicat softening temperature, B/120	ISO 306	°C	145
Coefficient of linear thermal expansion, 23-55°C	ISO 11359-2	1/°C	$7x10^{-5}$
Range temperature of usage		°C	-40 + 120
FIRE RATINGS			
Building & Construction			
USA	ASTM E84	-	Class. A
ANTI-BACTERIAL PERFORMANCE			
S. aureus 35°C Reduction colony forming units after 24hrs	ISO 22196:2011	%	>99,9
E-COLI 35°C Reduction colony forming units after 24hrs	ISO 22196:2011	%	>99,99

*These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local POLYVANTIS representative or the POLYVANTIS Quality Services Department.

PROCESSING

LEXAN™ CLINIWALL™ sheet is suitable for cold line bending and can be mounted on a wall with a simple glue solution. For details, we refer to our processing guide for AC6200FR sheet.

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 mould shrinkage is dependent on tool temperature and environmental circumstances but will typically be in the range of 0.5-0.9%.

WARRANTY

LEXAN CLINIWALL PLUS AC6200FR sheets will not break due to loss of impact strength when used indoors within ten (10) years of the date of sale by POLYVANTIS. See warranty for exact details.

SAFETY

The processing guidance given in this documentation is given in good faith and the trust that in all cases you wear the correct Personal Protective Equipment (PPE), e.g. helmet, proper gloves, safety goggles etc. to safely fabricate, e.g. (but not limited to) sawing, cutting, forming our sheets and films. In all cases you should follow local and national regulations around the wear of PPE's prescribed or mandatory to perform these tasks in a safely manor.

PRODUCT AVAILABILITY

Product code:	LEXAN™ CLINIWALL™ PLUS AC6200FR Sheet
Textures:	Polished/Suede - AC6206FR
Colors:	WH6G057 (White), BR8G038 (Beige) & GY7G160 (Medium grey)
Standard sizes:	AC6206FR: Gauges 1.5 and 1.7mm, W x L = 1300 x 3050mm
	AC6206FR: Gauges 0.059 and 0.067" W x L = 4.25 x 10ft

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