

LEXAN™ CLINIWALL™ AC6200 SHEET

PRODUCT DATASHEET

DESCRIPTION

LEXAN™ CLINIWALL™ sheet is a non-chlorinated and non-brominated opaque sheet with antibacterial properties against specifically E-coli and S. aureus bacteria. AC6200 is available in standard and custom colours. 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/cm ³	1.20
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
Linear thermal expansion, 23-55°C	ISO 11359-2	mm	7x10 ⁻⁵ 1/°C
IMPACT			
Izod impact, unnotched 23°C, 3.0 mm	ISO 180/1U	kJ/m ²	NB
Izod impact, notched 23°C, 3.0 mm	ISO 180/1A	kJ/m ²	70
THERMAL			
Vicat softening temperature, B/120	ISO 306	°C	145
FIRE RATINGS			
Building & Construction			
Europe	EN13501-1	-	B,s1,d0
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	%	>99,999

- ◆ These property values have been derived from resin data for the material used to produce this sheet product. Variation within normal tolerances are possible for various colors. These typical values are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC, Functional Forms representative. All values are measured at least after 48 hours storage at 23°C/50% relative humidity. All properties are measured on injection-molded samples. All samples are prepared according ISO 294.

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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 AC6200 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%.

PRODUCT AVAILABILITY

PRODUCT CODE:	LEXAN CLINIWALL AC6200 sheet
TEXTURES:	Polished/Suede (AC6206), Polished/Silk Math (AC6205) on request with protective masking
COLORS:	WH6G057 (White), BR8G038 (Beige), GY8G179 (Light grey), GN6G033 (Mint green), BL8G009 (Light blue), BL1G038 (Dark blue), GY1G140 (Dark grey), GY7G160 (Medium grey), 86183 (Off white)
SIZES:	AC6205: Gauges 1.2 and 1.5mm, W – L = 1300 – 3050mm AC6206: Gauges 1.5 and 1.7mm, W – L = 1300 – 3050mm

CONTACT US:

SABIC CORPORATE HQ

PO Box 5101
Riyadh 11422
Saudi Arabia
T +966 (0) 1 225 8000
F +966 (0) 1 225 9000
E info@sabic.com

AMERICAS

SABIC
Functional Forms
2500 CityWest Boulevard
Suite 100
Houston, TX 77042
USA
Toll-free (800) 323 3783
F (888) 443 2033
E spinside.sales@sabic.com

EUROPE

SABIC
Functional Forms
Plasticslaan 1
4612 PX
Bergen op Zoom
The Netherlands
T +31 (0)164 293684
F +31 (0)164 293272
E ff.info@sabic.com

PACIFIC

SABIC
Functional Forms
2550 Xiupu Road
Pudong
201319 Shanghai
China
T +86 21 3222 4500
F +86 21 6289 8998
E ff.info@sabic.com

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