

Technical Data Sheet

12.0MM COMPACT HPLS

S. NO.	PROPERTIES	UNIT	SPECIFIED VALUE AS PER IS 2046:1995	GREENLAM TYPICAL VALUES	
1	Classification		COMPACT-CGS		
2	Thickness	mm	12.0 ± 0.60	Complies	
3	Length & Width of Panel	mm	+10/00mm	Complies	
4	Resistance to Dry Heat at 180° C	Grade	Not worse than 4	5	
5	Resistance to Surface Wear	Revolution	350 (min.)	>350	
6	Resistance to Immersion in Boiling Water				
	a) Mass Increase	%	2.0 (max.)	0.33	
	b) Thickness	%	2.0 (max.)	0.76	
	c) Appearance	Grade	Not worse than 4	5	
7	Dimensional Stability at Deviated Temperature				
	a) Longitudinal	%	0.25 (max.)	0.11	
	b) Transverse	%	0.55 (max)	0.19	
8	Dimensional Stability at 20°C Temperature				
	a) Longitudinal	%	0.16 (max.)	0.08	
	b) Transverse	%	0.22 (max.)	0.13	
9	Resistance to Impact by Large Diameter Ball				
	a) Drop Height	mm	1800 (min.)	2000	
	b) Diameter of Indentation	mm	10 (max.)	7	
10	Resistance to Scratching	N	2.0 (min.)	2.5	
11	Resistance to Colour Change in Xenon Arc Lamp	Grade	Not worse than 6	6	
12	Resistance to Staining Group 1 & 2	Grade	5	5	
	Group 3 & 4	Grade	4	4	
13	Resistance to Cigarette Burns	Grade	Not worse than 3	4	
14	Resistance to Steam	Grade	Not worse than 4	5	
15	Resistance to Moisture	Grade	Not worse than 4	5	
16	Resistance to Crazing	Grade	Not worse than 4	4	
17	Flexural Modulus	Mpa (min.)	10000 (min.)	10500	
18	Flexural Strength	MPa(min.)	100 (min.)	112	
19	Tensile Strength	MPa(min.)	70 (min.)	78	
20	Density	g/cm ³	1.35 (min.)	1.39	
21	Screw Holding Capacity, ISO 13894-1: 2000, TM 15	N	4000	4500 (min.)	
BIO-CHEMICAL PROPERTY		STANDARD	UNIT	REQUIREMENT	TEST RESULT
Antiviral Efficacy & Activity		ISO 21702-2019	% Reduction in10 minutes	No Requirement	90.0% (Min.)
			% Reduction in 30 minutes	No Requirement	99.0% (Min.)
Virus tested			SARS CoV-2		
Antibacterial Efficacy & Activity		ISO 21702-2019	% Reduction in 2 hours	No Requirement	90% (Min.)
			% Reduction in 24 hours	95.0 (Min.)	99.9% (Min.)
			Activity after 24 hours	2.0 (Min .)	Exceeds
Virus tested			MS2 Bacteriophage		
Antibacterial Efficacy & Activity		JIS 2801-2012	% Reduction in 24 hours	95.0 minimum	99.99
			Activity after 24 hours	2.0(Min)	Exceeds
Bacteria tested			1. Pseudomonas Aeruginosa, 2. Enterococcus Faecalis, 3. Candida Albicans, 4. Pseudomonas Aeruginosa, 5. Escherichia Coli, 6. Klebsiella Pneumoniae, 7. MRSA (Methicillin Resistant Staphylococcus Aureus), 8. Salmonella Enterica		
Antifungal Efficacy		ASTM G-21-2015	Growth after 28 days	Rating 1	Rating O (No Growth)
Fungus tested			1. Aspergillus niger, 2. Penicillium funicolosum, 3. Gliocladium virens, 4. Chaetobium globosum, 5. Aurobasidium pullulans		

- Greenlam Compact Laminates can be made available in Fire Retardant, Lab Guardian (Chemical Resistant) and Antistatic variants.
- Dimensions of the boards offered:

Feet	mm
4’ x 8’	1220 x 2440
4’ x 10’	1220 x 3050
4.25’ x 10’	1300 x 3050
5’ x 6’	1525 x 1830
5’ x 12’	1525 x 3660
6’ x 6’	1830 x 1830
6’ x 8’	1830 x 2440
6’ x 12’	1830 x 3660

- Please refer to Index on range offering in above mentioned dimensions.
- Please contact your local representative for
 - a) other thickness and size
 - b) for complete range