

Technical Specifications

TECHNICAL DATA SHEET FOR GREENLAM UNICORE HPL: 1.0mm

S. NO.	PROPERTIES	UNIT	TEST METHOD AS PER BS EN 438 PART 2 & 3 :2016	REQUIREMENT AS PER SPECIFICATION	TYPICAL RESULTS GREENLAM
	Classification	BTS as per BS EN 438 Part 9: 2016			
1	Product Category	Greenlam Unicore HPL			
2	Thickness	mm	EN 438-2 – 5	1.0mm±0.15	Complies
3	Resistance to Dry Heat at 160° C	Rating	EN 438-2 -16	4 (min.)	5
4	Length & Width	mm	EN 438-2 – 6	+10.0mm/-0.0mm	Complies
5	Resistance to Surface Wear	Rev.	EN 438-2 -10	Initial Point ≥ 150	Complies
6	Resistance to Immersion in Boiling Water (2 hours)		EN 438-2 -12		
	Appearance	Rating		Other Finishes- 4 (min.)	5
				Gloss Finishes-3 (min.)	4
7	Dimensional Stability at Elevated Temperature		EN 438-2 -17		
	Longitudinal Direction	%		0.80 (max.)	0.43
	Transverse Direction	%		1.40 (max.)	0.68
8	Resistance to Scratching	N	EN 438-2 -25	3.0 (min.)	> 3.0
9	Flatness (on Full Sheet)	mm/M	EN 438-2 -9	≤ 100	Complies
10	Resistance to Water Vapour	Rating	EN 438-2 -14	4 (min.)	5
11	Resistance to Staining	Appearance Rating	EN 438-2 -26		
	Group 1 & 2			5 (min.)	5
	Group 3			4 (min.)	4
12	Density	g/cm ³	EN ISO 1183-1:2004	1.40 (min.)	150±0.4
13	Light Fastness (Xenon-Arc)	Contrast	EN 438-2 -27	Grey Scale Rating 4 (min.)	Complies
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.)
Virus tested			Activity after 24 hours	2.0 (Min.)	Exceeds
			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		

Note: Whereas Greenlam products are manufactured thoroughly to standards, the nature of the application procedure is beyond our control. The values given above are to the best of knowledge but without liability/warranty, expressed or implied.