

Technical Specifications

GREENLAM GENERAL PURPOSE ANTIVIRUS, ANTIBACTERIAL, ANTIFUNGAL HPL-1.00 MM

S. NO.	PROPERTIES	TEST METHOD AS PER BS EN 438 Part 2& 3: 2016	UNIT	SPECIFIED VALUES	GREENLAM VALUES
1	Classification	EN 438-3.5.3		HGS	
2	Thickness Thickness Variation	EN 438-3 - 6.3	mm mm (max.)	1.00 ± 0.10	1.00-1.06 ± 0.06
3	Resistance to surface wear, Initial Point	EN 438-2 - 10	Rev. (min.)	150	200
4	Resistance to impact with small diameter ball	EN 438-2 - 20	N (min.)	20	25
5	Resistance to scratching	EN 438-2 - 25	Rating (min.)	3	≥ 3
6	Dimensional stability at elevated temperatures Machine direction Cross direction	EN 438-2 - 17	% (max.) % (max.)	0.55 1.05	0.25 0.45
7	Resistance to immersion in boiling water	EN 438-2 - 12	Rating (min.), Appearance	For Gloss finish - 3 For Other finish - 4	≥ 3 ≥ 4
8	Resistance to dry heat at 160° Ć	EN 438-2 - 16	Rating (min.)	For Gloss finish - 3 For ther finish - 4	≥ 4 ≥ 5
9	Resistance to stains Group 1 & 2 Group 3	EN 438-2 - 26	Rating (min.)	5 4	5 ≥ 4
10	Resistance to Water Vapour	EN 438-2 - 14	Rating (min.)	For Gloss finish - 3 For Other finish - 4	≥ 3 ≥ 4
11	Resistance to Wet Heat (100°C)	EN 438-2 - 18	Rating (min.)	For Gloss finish - 3 For Other finish - 4	≥ 3 ≥ 4
12	Light Fastness (Xenon-arc light)	EN 438-2 - 27	Rating (min.) Contrast	4 to 5	≥ 5
13	Density	EN ISO 1183 -1	g/cm3 (min.)	1.35	1.40
BIO-CHEMICAL PROPERTY		STANDARD	UNIT	REQUIREMENT	TEST RESULT
Antiviral Efficacy & Activity		ISO 21702-2019	% Reduction in10 minutes % Reduction in 30 minutes	No Requirement No Requirement	90.0% (Min.) 99.0% (Min.)
Virus tested			SARS CoV-2		
Antibacterial Efficacy & Activity		ISO 21702-2019	% Reduction in 2 hours % Reduction in 24 hours	No Requirement 95.0 (Min.)	90% (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 Activity after 24 hours	95.0 minimum 2.0(Min)	99.99 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 to thorough 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.