

AIROLAM GENERAL PURPOSE ANTIVIRUS, ANTIBACTERIAL, ANTIFUNGAL HPL - 1.0MM

S.NO.	PROPERTIES	UNITS	TEST METHOD BS PER EN 438 PART 2 & 3 : 2016	SPECIFICATION	AIROLAM HD GLOSS 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° C	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 in 10 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
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 the AIROLAM Laminates 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.