

Technical Specifications

GREENLAM GENERAL PURPOSE ANTI-BACTERIAL HPL- 1.0MM

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	EN 438-3 - 6.3	mm	1.00	1.00-1.06
	Thickness Variation		mm (max.)	± 0.10	± 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	EN 438-2 - 17			
	Machine Direction		% (max.)	0.55	0.25
	Cross Direction		% (max.)	1.05	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 Other Finish-4	≥ 3 ≥ 4
9	Resistance to Stain	EN 438-2 - 26			
	Group 1 & 2		Rating (min.)	5	5
	Group 3		Rating (min.)	4	≥ 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 at 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/cm ³ (min.)	1.35	1.40
14	Anti-Bacterial Activity Test*	ASTM D 2180	% Reduction	95.0 (min.)	99.99
	Anti-Bacterial Efficacy & Activity Test as per JIS 2801-2012*	% Reduction- 95.0 (min.) Activity Criteria- 2.0 (min.)	99.9 4.5 (min.)	% Reduction- 95.0 (min.) Activity Criteria- 2.0 (min.)	99.9 4.5 (min.)
	*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			

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.