



Greenlam
LAMINATES

Technical Data Sheet

TECHNICAL SPECIFICATIONS



Characteristics	Test Standard	Units	Specified Value	HGS & HGF (FR) Greenlam Values	
Physical & Dimensional Properties					
Nominal Thickness		mm	As claimed by supplier	1.2	1.5
Thickness tolerance	EN 438-2-5	mm	± 0.15	1.10-1.25	1.40-1.55
Density	EN ISO 1183-1	gms/cm³	1.35 Min	1.38 to 1.40	1.38 to 1.40
Length & Width tolerance	EN 438-2-6	mm	-Nil/ +10.0	-Nil/ +6.0	-Nil/ +6.0
Straightness of edges	EN 438-2-7	mm/m	≤ 1.5 deviation	≤ 1.5	≤ 1.5
Squareness of edges	EN 438-2-8	mm/m	≤ 1.5 deviation	≤ 1.5	≤ 1.5
Flatness	EN 438-2-9	mm/m	≤ 60 deviation	≤ 50	≤ 50
Dimensional Stability at High temperature	Longitudinal Transverse	EN 438-2-17	%	≤ 0.55 Max	0.30
			≤ 1.05 Max	≤ 0.55	≤ 0.55
Resistance to Boiling water	EN 438-2-12	Rating	4 Min	4	4
Mechanical Properties					
Resistance to Cracking	EN 438-2-23	Rating	4 Min	4	4
Impact Resistance (Small Diameter Ball)	EN 438-2-20	N	20 Min	25	25
Impact Resistance (Large Diameter Ball)	EN 438-2-21	mm	≥ 800	1200	1200
Surface Properties					
Surface Defects	- Spot defects	EN 438-2-4	mm²/m²	≤ 1	Conforms
	- Linear defects		mm/m²	≤ 10	≤ 10
Resistance to surface wear (initial point)	EN 438-2-10	No. of revolutions	150 Min	Conforms	Conforms
Resistance to Steam	EN 438-2-14	Rating	4 Min	5	5
Dry heat resistance (160 Degree C)	EN 438-2-16	Rating	4 Min	5	5
Scratch Resistant	EN 438-2-25	N	2.0 Min	3	3
Stain Resistant	Group - 1 & 2 Group - 3	EN 438-2-26	Rating	5 Min	5
			4 Min	5	5
Light fastness under artificial light, Grey Scale	EN 438-2-27	Rating	4 to 5	4 to 5	4 to 5
Fire performance					
Reaction to Fire	EN 13501-1	Rating	Class	Bs1 d0 for F & Cs1 d0 for S	Bs1 d0 for F & Cs1 d0 for S
Thermal Conductivity	EN 12524	W/m °K	-	0.24	0.24
Health and Environmental Characteristics					
Food safe	EN 13130-1	-	-	YES	YES
Formaldehyde emission (release)	EN 717-1/ UL 2818	Class	-	E 1 / 7.3 ppb	E 1 / 7.3 ppb
Volatile Organic Compounds (VOC) Emission	ISO 16000-9	Class	-	A	A
Antiviral Efficacy & Activity	ISO 21702-2019	% Reduction in 2 hrs.	No Requirement	90% (Min)	90% (Min)
		% Reduction in 24 hrs.	95.0 (Min)	99.9% (Min.)	99.9% (Min.)
		Activity after 24 hrs.	2.0 (Min.)	Exceeds	Exceeds
Antibacterial Efficacy & Activity	JIS 2801-2012	% Reduction in 24 hrs.	95	99.99	99.99
		Activity after 24 hrs.	2.0 (Min)	Exceeds	Exceeds
Antifungal Efficacy	ASTM G-21-2015	Growth after 28 days	Rating 1	Rating 0 (No Growth)	Rating 0 (No Growth)

Above test results are applicable to all Greenlam laminates except metal or foil laminates

HGS = Horizontal General Purpose Standard

HGP = Horizontal General Purpose Post forming Grade

HGF (FR) = Horizontal General Purpose FIRE RETARDANT

CLASS: 1 = Surface Damage 2 = Severe appearance alteration 3 = Moderate Change 4 = Slight change visible from certain angle 5 = No Change

Virus Tested= MS2 Bacteriophage

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

Fungus Tested= 1. Aspergillus niger, 2. Penicillium funiculosum, 3. Gliocladium virens, 4. Chaetobium globosum 5. Aurobasidium pululans

Laminates featured in this catalogue are available in size 1220mm x 2440mm x 0.8mm unless otherwise stated.

Limited Warranty:

Greenlam Industries Limited (GREENLAM®) warrants to the original buyer that (GREENLAM®) HPL will be free of defects, under normal, proper and intended usage.

Within acceptable manufacturing specifications, buyer's remedy in a case of claims, as a result of defective HPL, shall be limited to only the replacement of HPL by (GREENLAM®)





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