

TECHNICAL DATA SHEET
GREENLAM ALUMINIUM FOIL LAMINATE
THICKNESS: 0.70 MM

Data Sheet Ref: GIL-TDS-L-EN-009

Dated: Sep. 19, 2024

Revision: 01

Characteristics	Test Standard (EN438-2-2016 & EN-438-8-2016)	Units	Specified Value	Greenlam Values MTS
Physical & Dimensional Properties				
Nominal Thickness		mm	0.70	
Thickness tolerance	EN 438-2-5	mm	± 0.15	± 0.07 (Conforms)
Density	EN ISO 1183-1	gms /cm³	1.35 Min	1.38 to 1.40
Length & Width tolerance	EN 438-2-6	mm	-Nil/ +10.0	-Nil/ +6.0
Straightness of edges	EN 438-2-7	mm/m	≤ 1.5 deviation	≤ 1.5
Squareness of edges	EN 438-2-8	mm/m	≤ 1.5 deviation	≤ 1.5
Flatness	EN 438-2-9	mm/m	≤ 120 deviation	≤ 50
Dimensional Stability at elevated temperature	EN 438-2-17			
- Longitudinal		%	≤ 0.75 Max	0.30
- Transverse			≤ 1.25 Max	≤ 0.55
Resistance to immersion in Boiling water	EN 438-2-12	Core Delamination (Pass or Fail)	Pass	Pass
Mechanical Properties				
Resistance to Cracking	EN 438-2-23	Rating	4 Min	≤ 4
Impact Resistance (Small Diameter Ball)	EN 438-2-20	N	No Requirement	--
Impact Resistance (Large Diameter Ball)	EN 438-2-21	mm	No Requirement	--
Surface Properties				
Surface Defects	EN 438-2-4			
- Spot defects		mm²/m²	≤ 1	Conforms
- Linear defects		mm/m²	≤ 10	≤ 10
Resistance to water vapour	EN 438-2-14	Rating	2 Min	≤ 2
Resistance to surface wear (initial point)	EN 438-2-10	No. of revolutions	No Requirement	--
Resistance to Steam	EN 438-2-14	Rating	No Requirement	--
Dry heat resistance (160 Degree C)	EN 438-2-16	Rating	No Requirement	--
Scratch Resistant	EN 438-2-25	N	1 Min	≤ 1
Stain Resistant	EN 438-2-26	Rating		
Group - 1 & 2			4 Min	≤ 4
Group – 3			4 Min	≤ 4
Light fastness under artificial light, Grey Scale	EN 438-2-27	Rating	4 Min	2
Fire performance				
Reaction to Fire	EN 13501-1	Rating	Class	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
Formaldehyde emission (release)	EN 717-1/ UL 2818	Class		E 1 / 7.3 ppb
Volatile Organic Compounds (VOC) Emission	ISO 16000-9	Class		A
Antiviral Efficacy & Activity	ISO 21702-2019	% Reduction in 2 hrs,	No Requirement	--
		% Reduction in 24 hrs.	No Requirement	--
		Activity after 24 hrs	No Requirement	--
Antibacterial Efficacy & Activity	JIS 2801-2012	% Reduction in 24 hrs.	No Requirement	--
		Activity after 24 hrs	No Requirement	--
Antifungal Efficacy	ASTM G-21-2015	Growth after 28 days	No Requirement	--
Color availability	Gold, Copper, Bronze & Brushed Natural Aluminum foils. Refer codes for respective colors from the product catalog.			
Surface protection	Product is supplied with protective film coating			
Product information:				
Application	Suitable for interior and vertical application only			
Reflective values	Can vary based on type of light & produce slight color variation			
Size Offered:	8'x4' (2440 x 1220 mm)			

Note:

- The HPLs must be used within 6 months from the date of receipt of the shipment since there is a chance of the peel coat reacting with the foil surface.
- The Foil HPLs are not recommended for use in humid areas like wet bathroom interiors or exteriors
- Never use harsh solvents or cleaning solutions on the foil surface. They will remove the coating and lead to oxidation of the foil surface.

Greenlam products are manufactured thoroughly to standards. The values given above are to the best of knowledge but without liability/warranty, expressed or implied.