

TECHNICAL SPECIFICATIONS



S.No.	PROPERTIES	TEST STANDARD	UNIT	SPECIFIED VALUES	AIROLAM VALUES
1	Classification & Test Protocol	IS 2046 : 1995		HGS, Thickness 1.0 mm	
PHYSICAL & DIMENSIONAL PROPERTIES					
	Nominal Thickness		mm	1.0	
2	Thickness variation	Clause - 5.3	mm	1.0 ± 0.10	1.00 (min.)
3	Tolerance on Length	Clause - 5.4.6	mm	+10, -Nil	+6, -Nil
4	Tolerance on Width	Clause - 5.4.6	mm	+10, -Nil	+6, -Nil
5	Straightness of edges	Clause - 5.4.7	mm/m	1.5 (max.)	Conforms
6	Squareness	Clause - 5.4.8	mm/m	1.5 (max.)	Conforms
7	Density	EN ISO 1183 -1:2004	kg/m3	1360 - 1400	Conforms
8	Warping (Flatness)	Clause - 5.4.5	mm/m	120 (max.)	Conforms
9	Dimensional Stability at Elevated Temperatures				
	Longitudinal Direction	Annex - F	%	0.55 (max.)	Conforms
	Transverse Direction	Annex - F	%	1.05 (max)	Conforms
10	Dimensional Stability at 20°C				
	Longitudinal Direction	Annex - G	%	0.38 (max.)	Conforms
	Transverse Direction	Annex - G	%	0.60(max)	Conforms
MECHANICAL PROPERTIES					
11	Resistance to Immersion in Boiling Water				
	Mass Increase	Annex - D	%	10.0 (max.)	Conforms
	Thickness Increase	Annex - D	%	11.8 (max.)	Conforms
	Appearance	Annex - D	Grade	Not worse than 4	Conforms
12	Resistance to Impact by Small Diameter Ball				
	Spring Force	Annex - H	N	20	Conforms
13	Resistance to Cracking	Annex - K	Grade	Not worse than 4	Conforms
SURFACE PROPERTIES					
14	Resistance to Scratching	Annex - L	N	2.0 (min.)	3.0 (min.)
15	Resistant to Steam	Annex - T	Grade	Not worse than 4	Conforms
16	Resistance to Water Vapor	EN 438-2-14	Class	Not worse than 4	Conforms
17	Resistance to Dry Heat at 180° C				
	Gloss Finish	Annex - E	Grade	Not worse than 3	Conforms
	Other Finish	Annex - E	Grade	Not worse than 4	Conforms
18	Resistance to Surface Wear,	Annex - C	Rev.	350 (min.)	700 (min.)
19	Resistance to Cigarette Burns	Annex – P	Grade	Not worse than 3	Conforms
20	Resistance to staining				
	Group 1 & 2	Annex – M	Grade	Not worse than 5	Conforms
	Group 3 & 4	Annex – M	Grade	Not worse than 4	Conforms
21	Resistance to Color Change				
	In Xenon Arc Lamp	Annex – N	Grade	Not worse than 6	Conforms
22	Gloss Retention	ASTM D 523	%	No spec.	95 (min.)
HEALTH & ENVIRONMENTAL CHARACTERISTICS					
23	Food safe	EN 13130-1	-	-	YES
24	Contents' migration as per Food Commission Regulation	EN 1186-1, 3 & 14: 2002	Migration	Migration of Simulants is less than maximum permitted by Regulation	
25	Formaldehyde emission (release)	EN 16516-2017	ppm	0.1	0.02
26	Volatile Organic Compounds (VOC) Emission	ISO 16000-9	Class	-	A
		UL 2818 - 2013	Certification		
27	Anti-Viral Efficacy & activity	ISO 21702-2019			
	% Reduction in 24 hours		%	95% (min.)	99.9% (min.)
	Activity after 24 hours		Log Reduction	2.0 (min.)	Exceeds
28	Anti-bacterial Efficacy & activity	JIS 2801-2012			
	% Reduction in 24 hours		%	95.0 (min)	99.99
	Activity after 24 hours		Log Reduction	2.0 (min)	Exceeds
29	Anti-Fungus Efficacy	ASTM G-21-2015			
	Growth after 28 days		Class	1	0 (No Growth)

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.