MADERAS DAGANZO, S.A.

Technical Specifications

S. No·	Properties	Unit	Test method as per EN 438 Part 2 & 4 :2016	Specified Values	Typical Results Greenlam
1	Classification		EN 438-4- 4		
	PHYSICAL & DIMENSIONAL PROPERTIES				
2	Nominal Thickness	mm		12.0	
3	Thickness	mm	EN 438-2 – 5	12.0 ± 0.50	Complies
4	Length & Width	mm	EN 438-2 – 6	+10mm/ -Nil	Complies
5	Density	g/cm^3	EN ISO 1183 -1:2004	1.35	1.4
6	Dimensional Stability at Elevated Temperature				
	Longitudinal Direction	%	EN 438-2 -17	0.30 (max)	0.08
	Transverse Direction	%		0.60 (max)	0.15
	MECHANICAL PROPERTIES				
7	Resistance to Immersion in Boiling Water (2 hours)				
	Mass Increase	%		2.0 (max)	0.24
	Thickness Increase		EN 438-2 -12	2.0 (max)	0.68
	Appearance	Rating		Not worse than 4	5
8	Resistance to Impact by Large Diameter Ball				
	Drop Height	mm	EN 438-2 -21	1800	1900
	Diameter of Indentation	mm		10 (max)	7
9	Flexural Modulus	Mpa	EN ISO 178: 2003	9000 (min)	Complies
10	Flexural Strength	Mpa		80 (min)	Complies
11	Resistance to Crazing	Rating	EN 438-2 -24	Not worse than 4	5
	SURFACE PROPERTIES				
12	Resistance to Water Vapor	Rating	EN 438-2 -14	Not worse than 4	5
13	Resistance to Dry Heat at 160° C	Rating	EN 438-2 -16	Not worse than 4	5
14	Resistance to Wet Heat @100° C	Rating	EN 438-2 -18	Not worse than 4	5
15	Resistance to Surface Wear, IP	Rev.	EN 438-2 -10	150 (min)	Complies
16	Resistance to Scratching	N	EN 438-2 -25	2.0 (min)	2.5
17	Resistance to Staining				
	Group 1 & 2	Rating	EN 438-2 -26	5	5
	Group 3			4	≥ 4
18	Light Fastness (Xenon Arc Lamp) - Grey Scale Contrast	Rating	EN 438-2 -27	4 to 5	Complies
	FIRE PERFORMANCE				
19	Reaction to Fire	Euroclass	EN 13501-1	C-s2, d0	Complies
20	Calorific Value	MJ/kg	. ISO 1716: 2010	19.91 (max)	19.88
	HEALTH & ENVIRONMENTAL CHARACTERISTICS				
21	Food Safe	-	EN 13130-1	-	YES
22	Contents' Migration as per Food Commission Regulation	Migration	EN 1186-1, 3 & 14: 2002		
23	Formaldehyde Emission (Release)	ppm	EN 16516-2017	0.1	0.02
24	Volatile Organic Compouns (VOC) Emission	Class Certification	ISO 16000-9 UL 2818-2013	-	A
25	Anti-Bacterial Efficacy & Activity				
	% Reduction in 24 hours	%	JIS 2801-2012	95.0 (min)	99.99
	Activity after 24 hours	Log Reductiona		2.0 (min)	Exceeds

Bacteria tested: 1. Pseudomonas. 2. Entrococcus Faecalis, 3. Candida Albicans 4. Pseudonomas Aeruginosa 5. Escherichia Coli 6. Klebsiella 7. MRSA (Methicilllin Resistant Stapphylococcus Aureus) 8. Salmonella Enterica
Fungus tested: 1. Aspergillus niger 2. Penicillum funicollosum 3. Gliocladium virens 4. Chaetobium globosum 5. Aurobasidium pullulans
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.