

Technical Specifications

S. No.	Properties	Unit	Test method as per EN 438 Part 2 & 4 :2016	Specified values	Typical Results Greenlam	Specified values	Typical Results Greenlam	Specified values	Typical Results Greenlam	Specified values	Typical Results Greenlam	Specified values	Typical Results Greenlam	Specified values	Typical Results Greenlam	Specified values	Typical Results Greenlam
	Nominal Thickness	mm		18.0		12.0		10.0		9.0		8.0		6.0		4.0	
1	Classification		EN 438-4- 4	Compact General purpose standard, CGS													
2	Thickness	mm	EN 438-2 – 5	18.0 ± 0.70	Complies	12.0 ± 0.50	Complies	10.0 ± 0.50	Complies	9.0 ± 0.50	Complies	8.0 ± 0.50	Complies	6.0 ± 0.40	Complies	4.0 ± 0.30	Complies
3	Resistance to Dry Heat at 160° C	Rating	EN 438-2 -16	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
4	Length & width	mm	EN 438-2 – 6	+10mm/-Nil	Complies	+10mm/-Nil	Complies	+10mm/-Nil	Complies	+10mm/-Nil	Complies	+10mm/-Nil	Complies	+10mm/-Nil	Complies	+10mm/-Nil	Complies
5	Resistance to Surface Wear, IP	Rev.	EN 438-2 -10	150 (min.)	Complies	150 (min.)	Complies	150 (min.)	Complies	150 (min.)	Complies	150 (min.)	Complies	150 (min.)	Complies	150 (min.)	Complies
6	Resistance to Immersion in Boiling Water (2 hours)		EN 438-2 -12														
	Mass Increase	%		2.0 (max.)	0.20	2.0 (max.)	0.24	2.0 (max.)	0.29	2.0 (max.)	0.31	2.0 (max.)	0.39	2.0 (max.)	0.64	2.0 (max.)	0.94
	Thickness Increase			2.0 (max.)	0.60	2.0 (max.)	0.68	2.0 (max.)	0.78	2.0 (max.)	0.84	2.0 (max.)	0.95	2.0 (max.)	1.12	2.0 (max.)	1.48
	Appearance	Rating		Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
7	Dimensional Stability at Elevated Temperature		EN 438-2 -17														
	Longitudinal Direction	%		0.30(max.)	0.06	0.30(max.)	0.08	0.30(max.)	0.10	0.30(max.)	0.11	0.30(max.)	0.12	0.30(max.)	0.16	0.40(max.)	0.28
	Transverse Direction	%	0.60(max)	0.14	0.60(max)	0.15	0.60(max)	0.19	0.60(max)	0.21	0.60(max)	0.25	0.60(max)	0.29	0.80(max)	0.38	
8	Resistance to Impact by Large Diameter Ball		EN 438-2 -21														
	Drop Height	mm		1800	1900	1800	1900	1800	1900	1800	1900	1800	1900	1800	1900	1400	1500
	Diameter of Indentation	mm		10 (max)	7	10 (max)	7	10 (max)	8	10 (max)	8	10 (max)	8	10 (max)	8	10 (max)	7
9	Resistance to Scratching	N	EN 438-2 -25	2.0 (min.)	2.5	2.0 (min.)	2.5	2.0 (min.)	2.5	2.0 (min.)	2.5	2.0 (min.)	2.5	2.0 (min.)	2.5	2.0 (min.)	2.5
10	Resistance to staining		EN 438-2 -26														
	Group 1 & 2	Rating		5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Group 3			4	≥ 4	4	≥ 4	4	≥ 4	4	≥ 4	4	≥ 4	4	≥ 4	4	≥ 4
11	Resistance to Wet heat @100°C	Rating	EN 438-2 -16	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
12	Light fastness (Xenon Arc Lamp)-Grey Scale Contrast	Rating	EN 438-2 -27	4 to 5	Complies	4 to 5	Complies	4 to 5	Complies	4 to 5	Complies	4 to 5	Complies	4 to 5	Complies	4 to 5	Complies
13	Resistance to Crazeing	Rating	EN 438-2 -24	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5	Not worse than 4	5
14	Flexural Modulus	Mpa	EN ISO 178:2003	9000(min)	Complies	9000(min)	Complies	9000(min)	Complies	9000(min)	Complies	9000(min)	Complies	9000(min)	Complies	9000(min)	Complies
15	Flexural Strength	Mpa		80 (min.)	Complies	80 (min.)	Complies	80 (min.)	Complies	80 (min.)	Complies	80 (min.)	Complies	80 (min.)	Complies	80 (min.)	Complies
16	Density	g/cm3	EN ISO 1183 -1:2004	1.35 (min)	1.40	1.35	1.40	1.35	1.40	1.35	1.40	1.35	1.40	1.35	1.39	1.35	1.39

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.

- Greenlam Compact Laminates can be made available in Fire Retardant, Lab Guardian (Chemical Resistant) and Antistatic variants.
- All Greenlam Compacts are supplied with Anti-Bacterial (conforming to JIS 2801) and Anti-Fungal (ASTM G21) properties by default.
- Dimensions of the boards offered:

Feet	mm
4' x 8'	1220 x 2440
4' x 10'	1220 x 3050
4.25' x 10'	1300 x 3050
5' x 6'	1525 x 1830
5' x 12'	1525 x 3660
6' x 6'	1830 x 1830
6' x 8'	1830 x 2440
6' x 12'	1830 x 2660

- Please refer to Index on range offering in above mentioned dimensions.
- Other thicknesses & sizes are also available as per requirement.
- Please contact your local representative for more information & complete range offerings.