

TEST REPORT

REPORT NO.: 2019FE0373

PAGE : 1 OF 4

This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Managing Director, SIRIM QAS International Sdn. Bhd. Please refer the last page for Conditions Relating to the Use of Test Report.

THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant : **GREENLAM ASIA PACIFIC PTE. LTD.**
D-2-10, Capital 4, Oasis Square,
No. 2, Jalan PJU 1A/7A, Ara Damansara,
47301 Petaling Jaya,
Selangor Darul Ehsan.
(Attn: Ms. Lavinia Yong)

Manufacturer : **GREENLAM INDUSTRIES LTD.**
VILL. Paterh Bhonku, P.O. Panjhera, Teh. Nalagarh. Distt. Solan,
Himachal Pradesh, 174101 India.

Product : **COMPACT LAMINATES**

Reference : BS 476: Part 6: 1989+A1:2009
Standard/
Method of Test : Fire Test on Building Materials and Structures
Part 6: Method of Test for Fire Propagation for Products.

Description of : 6 pieces of Compact Laminates.
Test Specimen
Size of Specimen : 225mm x 225mm x 12.0mm (measured thickness)
Brand : Greenlam
Model : Suede
Nominal Thickness : 12.0 mm
Measured Density : 1401 kg/m³

The specimens were tested with the face side exposed to the specified heating condition of the fire test.

The test was requested through PP2 Form Ref. No. P5-013350 dated 16.04.2019.


Date Received : 09.05.2019

Job Number : J20191440290

Test Result :	Subindex i1	Subindex i2	Subindex i3	Fire Propagation Index (I)
	0.0	7.0	6.2	13.2

Issued Date : 1 July 2019

Approved Signatory



(MUHAMMAD SAFUAN MUSA)
Testing Executive




(AZMI MUSA)
HEAD
Fire Protection Section
Testing Services Department

This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Managing Director, SIRIM QAS International Sdn. Bhd. Please refer the last page for Conditions Relating to the Use of Test Report.

Product : COMPACT LAMINATES

Brand : Greenlam

Nominal Thickness : 12.0 mm

Model : Suede

Measured Thickness : 12.0 mm

Date of Test : 19.06.2019

Measured Density : 1401 kg/m³

Time (Min.)	Temperature Rise Above Ambient (°C)				
	Calibration	Specimen A	Specimen B	Specimen C	Specimen Average
0.5	18	12	12	12	12
1.0	23	16	17	19	17
1.5	27	20	23	24	22
2.0	31	25	28	31	28
2.5	36	30	32	33	32
3.0	39	37	38	41	38
4.0	72	69	70	75	71
5.0	104	138	136	152	142
6.0	127	180	185	205	190
7.0	145	219	222	244	228
8.0	164	253	256	280	263
9.0	173	275	286	317	293
10.0	186	308	319	342	323
12.0	200	390	384	386	386
14.0	211	419	411	413	414
16.0	220	423	410	422	418
18.0	229	423	408	412	414
20.0	236	424	410	409	414
Subindex 1		0.0	0.0	0.1	0.0
Subindex 2		6.1	6.4	8.4	7.0
Subindex 3		6.4	6.0	6.1	6.2
Index of Performance		12.5	12.4	14.6	13.2



This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Managing Director, SIRIM QAS International Sdn. Bhd. Please refer the last page for Conditions Relating to the Use of Test Report.

Date of Test : 19.06.2019

No. of Specimen Tested : 3 nos.

The Fire Propagation Index **I** is **13.2** for the Compact Laminates with measured density of 1401 kg/m³ and measured thickness 12.0 mm.

The Subindex i1 is 0.0

The Subindex i2 is 7.0

The Subindex i3 is 6.2

The test results relate only to the behavior of the test specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.



A handwritten signature in blue ink, appearing to be 'M. N. M.', written over the bottom right portion of the stamp.

This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Managing Director, SIRIM QAS International Sdn. Bhd. Please refer the last page for Conditions Relating to the Use of Test Report.

Product : COMPACT LAMINATES

Brand : Greenlam

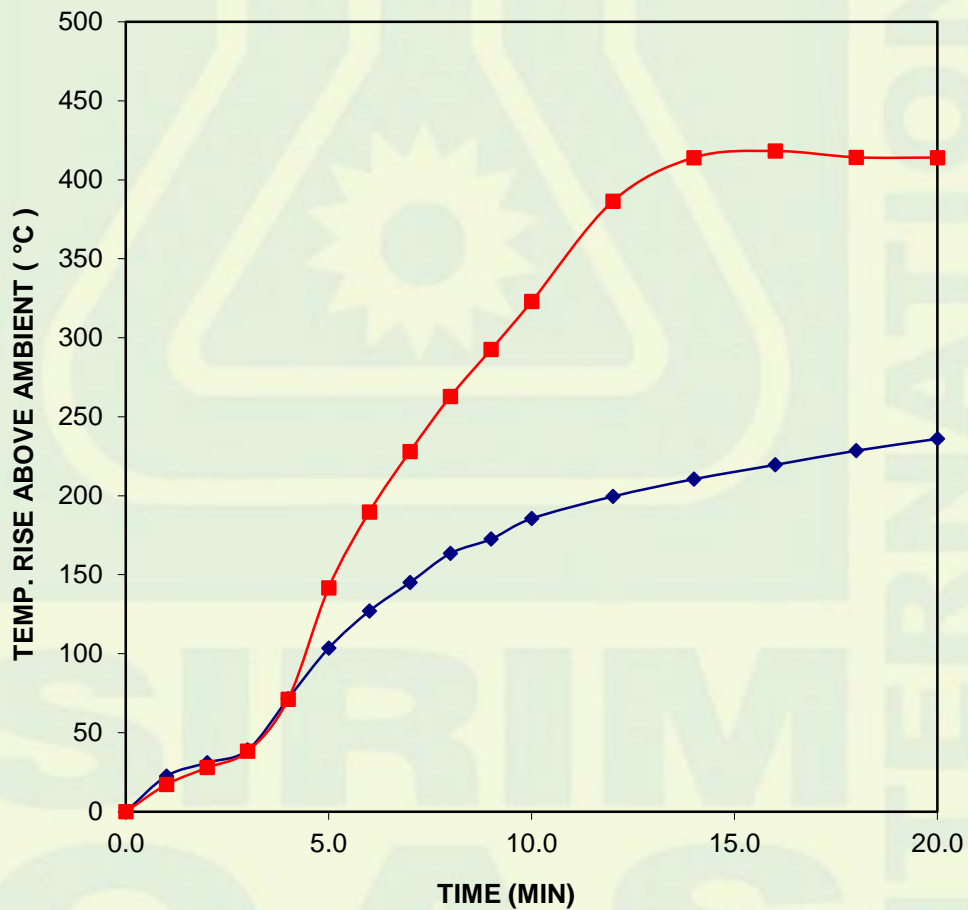
Nominal Thickness : 12.0 mm

Model : Suede

Measured Thickness : 12.0 mm

Date of Test : 19.06.2019

Measured Density : 1401 kg/m³



CONDITIONS RELATING TO THE USE OF SIRIM QAS INTERNATIONAL TEST REPORT

1. A Test Report will be issued in respect of Testing Services conducted and shall relate only to the Sample actually tested. SIRIM QAS International makes no warranty whatsoever and the Applicant shall not represent in any manner that any duplication or mass production of the Product is same as the Sample actually tested or that SIRIM QAS International has tested any of the duplicated or mass produced Product.
2. The Test Report shall not be amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.
3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.
4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Managing Director of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
5. Customer (Applicant/Manufacture/Factory, etc.) is not permitted to use any SIRIM QAS International, SIRIM or other SIRIM's subsidiaries logo or words on packaging, sample's manual, technical specification, brochures/flyers or any other means without the prior written approval from the Managing Director of SIRIM QAS International.
6. If such approval is obtained from the Managing Director of SIRIM QAS International, the Applicant may only include the phrase, "A sample of this product has been tested by SIRIM QAS International ... (Test Report No) ... (dated) (for what test) ... (to which standard)" or such similar words which stress that only the Sample was actually tested. This phrase shall only be used for the purpose of product advertisement or product promotion (eg; brochures). For avoidance of doubt, the statement shall not be used on the sample and packaging of the sample.
7. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International may disclose the information pertaining to the Test Report for purposes of such investigation.
8. Further or in the alternative, it is strictly forbidden unless with prior written approval from the Managing Director of SIRIM QAS International, to represent in any manner whatsoever that SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries has endorsed, approved or validated the Product of the Applicant in any manner whatsoever.
9. In the event the Applicant is found in breach of this provision, SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries without prejudice to any other rights and remedies may take whatever action necessary including but not limited to:
 - a) Informing and placing a notice in the media;
 - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
 - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
 - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
 - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
10. Certified true copies of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee.
11. Corrections to test report shall only be allowed within 6 months from issuance date of the test report and shall be limited to maximum 3 times, after either case whichever occurs earlier, a new test report shall be issued and replace the previous one (having error(s) or lack of information). Issuance of Supplementary Report to the original Test Report shall be for the followings;
 - a) Misprints and typo errors
 - b) Missing technical information
 - c) Test data not reported
 - d) Mistake in reporting of test data