

## TEST REPORT

REPORT NO.: 2019FE0376

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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.**  
E-176-179, SP-02, Riico Ind. Area, Phase II,  
Behror-Alwar (RAJ.), 301701 India.

Product : **HIGH PRESSURE LAMINATES**

Reference : BS 476 : Part 7: 1997  
Standard/  
Method of Test : Fire Test on Building Materials and Structures  
Part 7: Surface Spread of Flame Test.


Description of : 9 pieces of High Pressure Laminates.  
Test Specimen :  
Size of Specimen : 270mm x 885mm x 0.83mm (measured thickness)  
Brand : Greenlam  
Model : Suede  
Nominal Thickness : 0.8 mm  
Measured Density : 1375 kg/m<sup>3</sup>

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. P5-013355 dated 16.04.2019.

Date Received : 09.05.2019  
Job Number : J20191440293  
Test Result : **Classification of Surface Spread of Flame Test** : **Class 1**  
Issued Date : 28 June 2019

Approved Signatory



(MUHAMMAD SAFUAN MUSA)  
Testing Executive



(AZMI MUSA)  
Head  
Fire Protection Section  
Testing Services Department

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**Name of Applicant** : GREENLAM ASIA PACIFIC PTE. LTD.  
**Name of Manufacture** : GREENLAM INDUSTRIES LTD.  
**Product** : HIGH PRESSURE LAMINATES  
**Brand** : Greenlam  
**Model** : Suede  
**Nominal Thickness** : 0.8 mm  
**Measured Thickness** : 0.83 mm  
**Measured Density** : 1375 kg/m<sup>3</sup>  
**Date of Test** : 28.05.2019

#### Requirement

The flame spread on any specimen of the sample shall not exceed the limit assigned for the class with the proviso that for one specimen only in the sample the flame spread may exceed this limit by the tolerance shown.

#### Classification of Surface Spread of Flame

Classification	Flame Spread at 1½ min		Final Flame Spread	
	Limit (mm)	Tolerance for one specimen in sample (mm)	Limit (mm)	Tolerance for one specimen in sample (mm)
Class 1	165	25	165	25
Class 2	215	25	455	45
Class 3	265	25	710	75
Class 4	Exceeding Class		3 limits	



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### Test Results

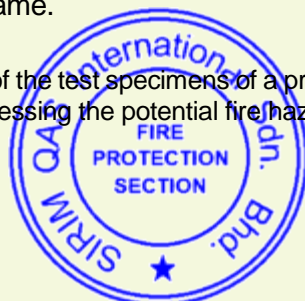
**Product** : HIGH PRESSURE LAMINATES  
**Brand** : Greenlam **Nominal Thickness** : 0.8 mm  
**Model** : Suede **Measured Thickness** : 0.83 mm  
**Date of Test** : 28.05.2019 **Measured Density** : 1375 kg/m<sup>3</sup>

Specimen No.	1	2	3	4	5	6
Spread of flame at 1½ minutes (mm)	0	0	0	0	0	0
Distance (mm)	Time of spread of flame to indicated distance ( minutes . seconds )					
75	-	-	-	-	-	-
165	-	-	-	-	-	-
190	-	-	-	-	-	-
215	-	-	-	-	-	-
240	-	-	-	-	-	-
265	-	-	-	-	-	-
290	-	-	-	-	-	-
375	-	-	-	-	-	-
455	-	-	-	-	-	-
500	-	-	-	-	-	-
525	-	-	-	-	-	-
600	-	-	-	-	-	-
675	-	-	-	-	-	-
710	-	-	-	-	-	-
750	-	-	-	-	-	-
785	-	-	-	-	-	-
825	-	-	-	-	-	-
865	-	-	-	-	-	-
Time of maximum spread of flame (minutes . seconds)	-	-	-	-	-	-
Distance of maximum spread of flame (mm)	0	0	0	0	0	0

### Conclusion

In accordance with the class definition specified in the standard, the test results show that the sample tested has a Class **One** Surface Spread of Flame.

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





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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.
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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.
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  - 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