



Plastics Technology Group
Advanced Polymer & Composites Programme
SIRIM Berhad

(Company No. 367474-V)
Tel: (603) 55446090/40

Fax: (603) 55446039

CONFIDENTIAL

EVALUATION REPORT

Title: **Rate of Burning of "Wood Polymer Composites"**

Report No.: PTC/ER08/197

Date: 9 June 2008

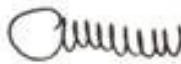
Project No.: P08243

Sample: "Wood Polymer Composites: Brownish and milky"

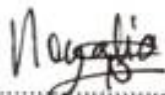
Company Name: Perceptive Profile Sdn. Bhd.

Address: PT 19251, Persiaran Batu Gajah Perdana 10
Taman Perindustrian Batu Gajah Perdana
31550 Pusing
Perak Darul Ridzuan

Evaluated by:

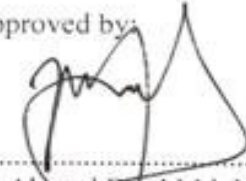

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Aminullah Ashari

Checked by:


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Dr Norzalia Sulaiman



Approved by:


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Dr Ahmad Fuad Md. Yusuf
Head of Programme
Plastics Technology Group

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TOTAL NO. OF PAGES:	2	PAGE: 2
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Specification/Test Method:

ASTM D 635: 2003 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.

Sample Identification:

Two (2) pieces of sample having a dimension of 1,000 mm x 190 mm x 13 mm indicated in the application letter as "Brownish and milky" were received on 27 May 2008.

Result:

"Wood Polymer Composites: Brownish and Milky"

No.	Material	Linear Burning Rate, mm/minute	Classification*	Test Method
1	Brownish	10	HB	ASTM D 635 Average thickness: 12.5 mm
2	Milky	The flame front did not pass the 25 mm reference mark	HB	ASTM D 635 Average thickness: 12.8 mm

Note:

- a) HB denotes horizontal burning
- b) * Refer to Appendix 1 for the material classification.



Classification system for determining the relative linear rate of burning and/or extant and time of burning of plastics.

Category Designation-The behavior of specimens shall be classified HB (HB = horizontal burning) if,

- a. There are no visible signs of combustion after the ignition source is removed, or
- b. The flame front does not pass the 25 mm reference mark, or
- c. The flame front passes the 25 mm reference mark but does not reach the 100 mark, or
- d. The flame front reaches the 100 reference mark and the linear burning rate does not exceed 40 mm/minute for specimens having a thickness between 3 and 13 mm or 75 mm/minute for specimens having a thickness less than 3 mm.

