

TOP SECRET



San Miguel Woven Products Sdn Bhd
(Formerly known as Guisere Woven Products (Melaka) Sdn Bhd)

Lots 9 & 10, Jalan Usaha 4,
Ayer keroh Industrial Estate,
75450 Melaka, Malaysia.

Tel : 06-2323898

Fax : 06-2329916 & 2321437

NFR1

PRODUCT SPECIFICATION


Packaging Research Centre Sdn Bhd (1992-01-1)

A Member of the Hong Leong Group Malaysia

Lot 9078 & 9079, Jalan Jenarum 28-29, Seksyen 79,

40000 Shah Alam, Selangor Darul Ehsan, Malaysia.

Tel: 03-5119868 Fax: 03-5119804

Email: enquiry@prc.com.my Http://www.prc.com.my



ISO 9001:2015

 TESTING
 SAMM NO. 100

TEST REPORT

Report No.: 0203/0/PL

Issued Date: 6.6.2001

Page No.: 2 of 2

PLASTIC TESTING LABORATORY

Description	No. of Specimen Tested	Unit	Test Method	Testing Date	Mean Value	Std. Dev.	Estimated Expanded Uncertainty*	Coverage Factor, K	
Customer					Guidew Waves Products (Malaka) Sdn. Bhd.				
Conditioning					No				
Material Identity					A073-01 (MPET with fabric)				
Testing Environment					23±1°C, 50±5%RH				
Measured thickness (20 MPa pressure applied)	20	mm	PRICTM 00594	1.6.2001	0.181	0.015	± 0.007	2.06	
Grammage	10	gm ²	PRICTM 10194	1.6.2001	154.4	4.8	± 3.4	2.24	
Testing Environment					23±1°C, 50±5%RH				
Crosshead Speed: 200mm/min Gauge Length: 30mm (Load of Peak)									
**Tensile strength [†] "Per SAMA Approval"	MD	5	% Elongation	PRC TM 00201	5.6.2001	875.0	12.4	± 21.4	2.03
	TD	5	%			505.3	45.9	± 54.7	2.48
**Bongalon "Per SAMA Approval"	MD	5	%			37.7	2.3	± 2.8	2.66
	TD	5	%			13.8	1.54	± 1.9	2.72
Crosshead Speed: 10mm/min Gauge Length: 30mm **Bond Strength "Per SAMA Approval" (MPET Layer)	5	N/30mm	In-house	5.6.2001	2.47	0.15	± 0.16	2.55	
Water Vapour Transmission Rate 37.0°C, 90%/RH	2	gm ² /day	AETM 7 1240-90 (Disapproved 1993)	5.6.2001					
					0.13	0.034	± 0.01	2.10	
					0.20	0.02	± 0.01	2.08	

Remarks: *Estimated Expanded Uncertainty at 95% confidence level.

**Test executed "Per SAMA Approval" in this Test Report is not included in the SAMM Accreditation Schedule for our laboratory.

†It was observed that the results obtained are inconsistent as shown in the test file.

Tested by:

Name:

Designation:

 Tang Ming Heo
 R & D Assistant

Confirmed by:

Name:

Designation:

 Lok Mei Mei
 R & D Manager

This report is issued as a certificate with the conditions of accreditation granted by the SAMM which has assessed the testing capability of the laboratory. The issuing laboratory shall assume no liability whatsoever in connection with the use of information contained herein. Copyright of this is owned by the issuing laboratory and may not be reproduced other than in full, except with prior written approval of the head of the testing laboratory.

TEST REPORT

Year for: Letter dated 7 July 1999 Date: 27 July 1999
 Ser No: 26T0000011A20HWC Page: 1/2
 (These give serial no. to page)
 Job No: 7720018 Test No: 7703903



PSB is established as a testing and testing authority by an Act of Parliament, the PSB Act No 1 of 1992

NOTE: This Report is issued subject to the "Terms and Conditions Governing Technical Services" set out in the "Request for Technical Services" form. The terms and conditions governing the issue of this report are set out in the form. This Report is not a Certificate of Quality. It only applies to the specific product/subject given at the time of its testing/evaluation. The results shall not be used to indicate or imply that they are applicable to other similar items. In addition, such results may not be used to indicate or imply that PSB approves, recommends or endorses the performance, quality or use of work product/employment, or that PSB in any way "guarantees" the later performance of the product/employment.

SUBJECT:

Testing of foil laminates submitted by Guilene Woven Products (Melaka) Sdn Bhd on 9 July 1999.

TESTED FOR:

Guilene Woven Products (Melaka) Sdn Bhd
 Lots B & 10, Ayer Keroh Industrial Estate
 75450 Melaka, Malaysia

Attn: Ms S. Prema Sandrasegaran

DATE OF TEST:

25 July 1999 to 27 July 1999

DESCRIPTION OF SAMPLE:


12 pieces of foil laminates sample identified as "NFR 1 - 6x6 8000" each of nominal size of 650mm x 600mm x 105µm were received. The product was said to be polyethylene base of 0.9g/cm³ density.




Sample

Handwritten initials/signature

Test	Unit	Result	
		Machine Direction	Cross Direction
Initial tear resistance	N		
- maximum loading		50	38
- minimum loading		37	26
- average 10 readings		41	30


 Lim Chee Meng
 Technical Executive


 Goh-Chow Chew Ping (Mrs)
 Principal Technical Executive
 Mechanical Test Centre

25T0000081/A11/WC

Page 2/2


Singapore Productivity
and Standards Board**METHOD OF TEST:**

As requested by the client, the test was conducted in accordance with DIN 53363
"Testing of plastic films - tear propagation test on trapezoidal specimens with a
SE".

RESULTS:

Type	Unit	Results	
		Machine Direction	Cross Direction
Tear propagation resistance	N/mm		
- maximum reading		1362	893
- minimum reading		659	555
- average 10 readings		1040	693
Thickness of samples	mm	0.121	0.109


Lim Chee Meng
Technical Executive


Goh-Chow Clew Ping (Mrs)
Principal Technical Executive
Mechanical Test Centre