Product Certification of EKOPRENA:

Application for Certification

MALAYSIAN RUBBER BOARD
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Bangunan IRPEC, Lembaga Getah Malaysia
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1. Scope

1.1 The MRB product certification of EKOPRENA is restricted to EKOPRENA producers located within the country and covers:

a. EKOPRENA 25
b. EKOPRENA 50

2. Product Certification System Type

2.1 The MRB use ISO System No. 5 as the certification scheme. Under this system, certification is granted only if the product meets with the specified standard and there is a proper quality management system to ensure continuous compliance with the standard.

2.2 The ISO System No. 5 involves type of testing and assessment of factory quality management system and it acceptance followed by surveillance that takes into account the assessment of factory quality management system and testing of samples from the producer.

3. General Requirements of Certification

3.1 Certification Procedures

3.1.1 A EKOPRENA producer that wish to has its product certified by the MRB need to apply to the Product Certification Secretariat using the application form issued by the MRB, a copy of which is shown in **Attachment 1.**

3.1.2 In addition to comply with the General rules governing the MRB Product Certification system (see Product Certification: MRB – PCB – 01: Rules Governing Rubber Product Certification), producers applying for certification are also required to conform to the following:

a) Provide all necessary information required by the MRB for the purpose of evaluation of the product(s) to be certified. Applicants may be required to provide documentary proof that their productions are technically capable in meeting the specified EKOPRENA specification, including that all production lines at a factory are capable of meeting all the technical requirements of the EKOPRENA certification system.

b) Provide documentary evidence that the certificate of quality management system obtained from accredited certification body.

c) Pay all relevant application fees to the MRB.

d) Allow the MRB inspector to collect samples for the evaluation process. There should be no interference on the part of the applicant in terms of how random samples are selected by the MRB's evaluation personnel.

e) Samples may be taken at any point after packaging from the production line and samples may also be taken at export points or from the market.

f) While all information supplied by the applicant shall be treated with utmost confidentiality by the MRB, the applicant shall permit the MRB to use and release whatever information obtained in the course of the application to the public or government authorities as deemed proper and necessary by the MRB, or as required by existing law or regulation.

3.1.3 On receipt of the application, the Product Certification Secretariat will provide a written acknowledgement to the applicant, if all fees have been received and all information required is in order.

3.1.4 MRB will inform the applicant with regard to an inspection on the factory for the purpose of certification assessment. Satisfy with the assessment, the applicant shall be issued a certificate of conformity. The successful applicants shall also be permitted to use the EKOPRENA and MRB Conformity Mark on their product and/or packaging. The approved applicant shall be registered and added to the certified supplier list (which may be made public and each certification shall be address-specific).The Product Certification Committee (PCC) shall have access to this list at any time.

3.1.5 The detail of the certification process is shown in **Attachment 2.**

3.2 Product Sampling

3.2.1 The principle for product sampling

3.2.1.1 Product sampling for surveillance inspection

In general, product sampling during inspection shall be randomly selected and sample shall be from the representative scope of application for certification, and current batch production. The number of sample will be referred to Table 1 and Table 2. The detail of the certification process is shown in **Attachment 2.**

Table 1: Determination of number of batch to be inspected

Product	Number of batch	Inspection level	AQL	Number of batch sampled	Note
1. EKOPRENA 25 2. EKOPRENA 50	1	S3	0.4	1	ISO 2859-1:1999*
	2-15	S3	0.4	2	
	16-50	S3	0.4	3	
	51-150	S3	0.4	5	
	151-500	S3	0.4	8	

Table 2: Number of sample to be taken from inspection

Product	Batch size (Bales)	Inspection level	AQL	Number of sample	Note
1. EKOPRENA 25 2. EKOPRENA 50	36	S3	0.4	3	ISO 2859-1:1999*
	72	S3	0.4	5	
	108	S3	0.4	5	
	144	S3	0.4	5	
	180	S3	0.4	8	

Note: One batch is equivalent to one reactor's output.

*Reference
a. Table 1 – Sample size code letter
b. Table 2 – A- Single sampling plan for normal inspection (Master table)

3.2.1.2 Product sampling for routine production

Product sampling for routine testing must represent the true production and therefore the samples shall be taken for every X bales. The value of X is derived as follows:

$$\frac{\text{Number of bales}}{\text{Number of samples}} = X$$

Number of bales and Number of samples are referring to Table 3.

Table 3: Routine sampling certified producer

Product	Number of pallet	Number of bale	Inspection level	AQL	Number of samples	Note
1. EKOPRENA 25	1-2	36 - 72	S4	0.4	5	ISO 2859-1:1999*
	3-4	108 - 144	S4	0.4	8	
	5-13	180 - 468	S4	0.4	13	
	14-33	504 - 1188	S4	0.4	20	
2. EKOPRENA 50	34-277	1224 - 9972	S4	0.4	32	

3.2.2 Product standards and test items

Each of the EKOPRENA samples collected will be tested for the following specification as listed in Table 4 below.

Table 4: Specification for EKOPRENA grades

Specification	Test method	EKOPRENA 25	EKOPRENA 50
Epoxidation level	UPB/P/022	25±2 %	50±2 %
	ASTM 3418	-45(±2)^{o}C	-20 (±2)^{O}C
Mooney Viscosity ,VR	ISO 289-1	70-100	70-100

*Determination of Epoxidation level can be determined using two test methods. Priority is on UPB/P/002 test method.

3.2.2.1 Testing Laboratory

For inspection activities, testing of samples shall be carried out at MRB Laboratories whereas for routine samples, testing may be carried out at designated laboratories that are accredited to ISO/IEC 17025.

3.3 Surveillance Inspection

3.3.1 Successful certified producers shall be subjected to the MRB surveillance program, which is **at least twice a year**. All surveillance for the purpose of sampling shall be **unannounced**.

3.3.2 Samples are to be marked by the MRB inspector personnel and the samples are sent to MRB laboratories.

3.3.3 All results of the surveillance testing will be sent to the producer. Any failure will cause the producer to receive a warning letter. A follow up surveillance will be carried out accordingly. Any failure from the follow up surveillance will cause the producer to be suspended. The producer shall take corrective action within **90 working days** of the date of notification letter and inform MRB in written.

3.3.4 The producer shall immediately cease to label affected product with the Certification Mark and not made any further reference to its certified status.

3.3.5 An official suspension of a certificate will be confirmed by the MRB in a registered letter to the producers.

3.3.6 The producer may revert to such claims only after the MRB has lifted its suspension and notified it officially.

3.3.7 The producer shall inform MRB on the corrective action taken in written. A verification inspection will be carried out to verify the effectiveness of corrective action taken and the number samples to be taken on the follow-up surveillance visit will be equal to the number samples taken during the surveillance earlier.

3.3.8 Any producer that product does not meet the specified technical specification after the verification inspection shall face the consequences of **termination of certification**.

3.3.9 Detail of EKOPRENA certification process flow can be referred to **Attachment 3.**

4. Amendment to Scope of Certification

4.1 A certified producer may at any time make a formal application to the MRB to amend its scope of certification, e.g. increase/reduction of scope, using the appropriate form available from the Product Certification Secretariat. The MRB will decide on the action necessary in response to the request, which may require a new or additional evaluation. The application shall be informed in writing on the action taken by the MRB regarding the application.

5. Use of the EKOPRENA and Mark of Conformity

5.1 Certified producers are permitted to use EKOPRENA and Mark of Conformity on their products and/or product packaging (where appropriate) and make reference to their certified status. The mark detailing the information of the producer and demonstrate that such products meet with specified standard(s)/specifications.

5.2 Where practicable, both EKOPRENA and the Mark of Conformity shall be reproduced in the form as detailed in Figure 1 and Figure 2. The Mark shall be in the colour shown in Table 5. Any enlargements or reductions shall retain the same proportions but shall be sufficiently large for the wording to be clearly legible.

5.3 The EKOPRENA and Mark of Conformity may be imposed on products and/or their smallest units of packaging (where appropriate) in whichever manner deemed practicable, and shall be applied together with certification code to whom the product is certified to.

Figure 1: EKOPRENA 25 packaging strip

Figure 2: EKOPRENA 50 packaging strip

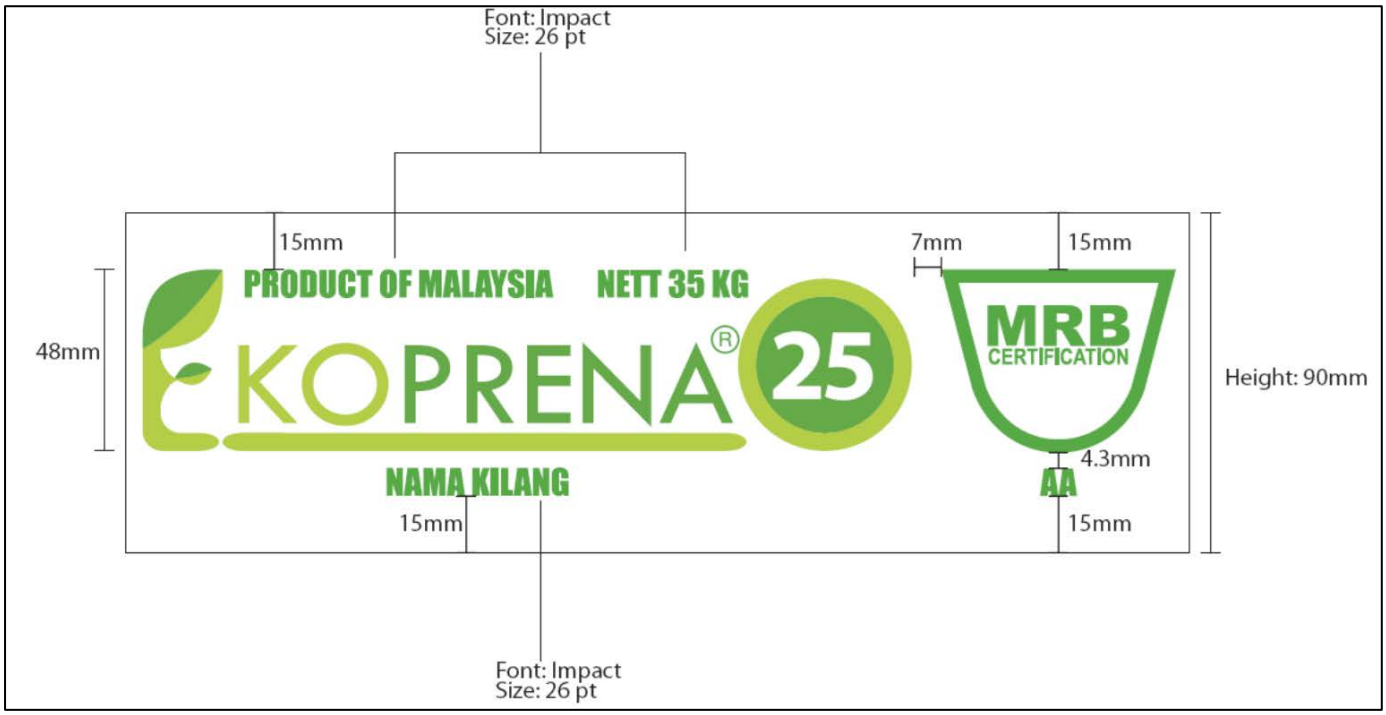

Figure 3: Size and dimension guideline for EKOPRENA strip

Table 5: Colour code for EKOPRENA strip

Colour	Cyan	Magenta	Yellow	Black	Strip background	Reference
	70	10	100	0	White	CMYK
	33	3	91	0	White	CMYK

6. Packaging

6.1 EKOPRENA should be packaged in bales of nominal mass 33.3 kg or 35 kg (tolerance ± 0.5 kg). Each bale shall be:

a. Identified and traceable.

b. Marked as indicated in Figure 1 and Figure 2 (refer above).

c. Wrapped either in low density polyethylene (LDPE) film or in some other form of packaging as agreed between the interested parties.

7. Suspension, Cancellation and Withdrawal of the Certificates

7.1 If the certification of a product is suspended or terminated (cancelled/withdrawn), the following actions shall be undertaken immediately by the producer:

7.1.1 The producer shall immediately cease to label any product with the EKOPRENA and Mark of Conformity, code and not made any further reference to its certified status.

7.1.2 The producer shall surrender the valid certificate to the MRB.

7.1.3 The MRB has the right to publicise the name of product (and its producer) which has been suspended or has its certified status withdrawn. Likewise, the MRB will notify when suspension on a particular product (producer) has been lifted.

7.2 The MRB reserves the right to take appropriate action, including legal ones, against any producer who violates the above rules during the period of suspension, or after the certification has been withdrawn.

8. Charges

8.1 The certification shall be charged by the certification body as per **Attachment 4.**

MALAYSIAN RUBBER BOARD

APPLICATION FOR PRODUCT CERTIFICATION
BY USE OF CERTIFICATE AND/OR MARK OF CONFORMITY

TO: Regulartory & Quality Assurance Program,
Malaysian Rubber Board
Bangunan IRPEC,
Stesen Penyelidikan RRIM, Sungai Buloh,
47000 Sungai Buloh,
SELANGOR DARUL EHSAN

Information regarding the applicant;

1. Name of Company

2. Official Address

Telephone
Fax
E-mail

3. Manufacturing Address of the Product (if different from 1 and 2)

Telephone
Fax
E-mail

4. Company Registration Number															
Contact Person															

Designation of product for which Product Certification is sought

Product	Relevant Standard (s)/Specification

5. Qualtiy Management System

Please state (√) the quality management system implemented by your company

ISO 9001 ☐ FDA QSR ☐ EN 46002 ☐

Others (please specify)

Please indicate the year of implementation

6. Warehouse Information

Please provide the following information (if applicable) in the space provided
Number of plants within the same premises (for 1 above) Number of warehouses within the same premises (if more than one)
Names and addresses of plants under the same management in Malayisa Number of plants within the same premises (if more than one) Number of warehouses within the same premises (if more than one)
Name and addresses of plants under the same management overseas Number of plants within the same premises at each site Number of warehouses within the same premises (if more than one)

Particulars for 6

7. Contract Suppliers

Do you have any contract suppliers Yes ☐ No ☐
If yes, do they all have a recognised quality system of at least ISO 9001? Yes ☐ No ☐
If yes, are they all certified to the MRB Product Certification Program? Yes ☐ No ☐

8. We hereby agree to:

a. to make a payment for the certification upon receiving invoice from MRB
b. ensure the product manufactured and the manufacturing process comply with the relevant standard(s) and other product certification requirements.
c. allow authorized MRB Product Certification personnel free access (together with factory representative factory, store and godown and to our office (records of production or other relevant documents).
d. allow authorized MRB Product Certification personnel to access and carry out random sampling in our premises.
d. temporarily suspend the export/local sale of any MRB certified product if instructed to do so by an MRB Product Certification Personnel.
e. the opening at ports or elsewhere, marked as MRB Certified Product for inspection or otherwise.
f. allow MRB Product Certification Personnel to inspect our productions at any time, either announced or unannounced.
g. keep the MRB informed of any changes in the particulars given above and/or in the details of production, including processing changes and/or quality system.
h. ensure that MRB certifed product shipments are only made when we have a valid MRB Certificate of Conformity.
i. abide by the rules and regulations contained in the document,Product Certification: MRB-PCB-01 General Rules Governing Product Certification, including those pertaining to the use of mark and certificate of conformity and the logo.
j. sign the MRB Product Certification Agreement before grant of certification licence.

☐ I/We* understand the term and conditions on certification requirements

9. I/We* declare that to the best of my/our* knowledge and belief all the information given is true and correct and tha I/we* understand that if any of the information given if found not to be true and correct this application will be refused and any certification awarded shall be declared null and void.

10. Date of application……

11. Name and title of person authorized to sign on behalf of the applicant

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.....

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.....

.....

Signature:……

* Delete whichever is not applicable

FOR OFFICE USE ONLY

Received Date : ……

Received Payment Date : ……

		Yes	No
1.	Client information is sufficient	☐	☐
2.	Product information is sufficient	☐	☐
3.	No Difference in Understanding Between the MRB and the Client	☐	☐
4.	The scope of certification sought is defined	☐	☐
5.	The means are available to perform all evaluation activities	☐	☐
6.	MRB has the competence and capability to perform the certification activity.	☐	☐

Review by : Approve by :

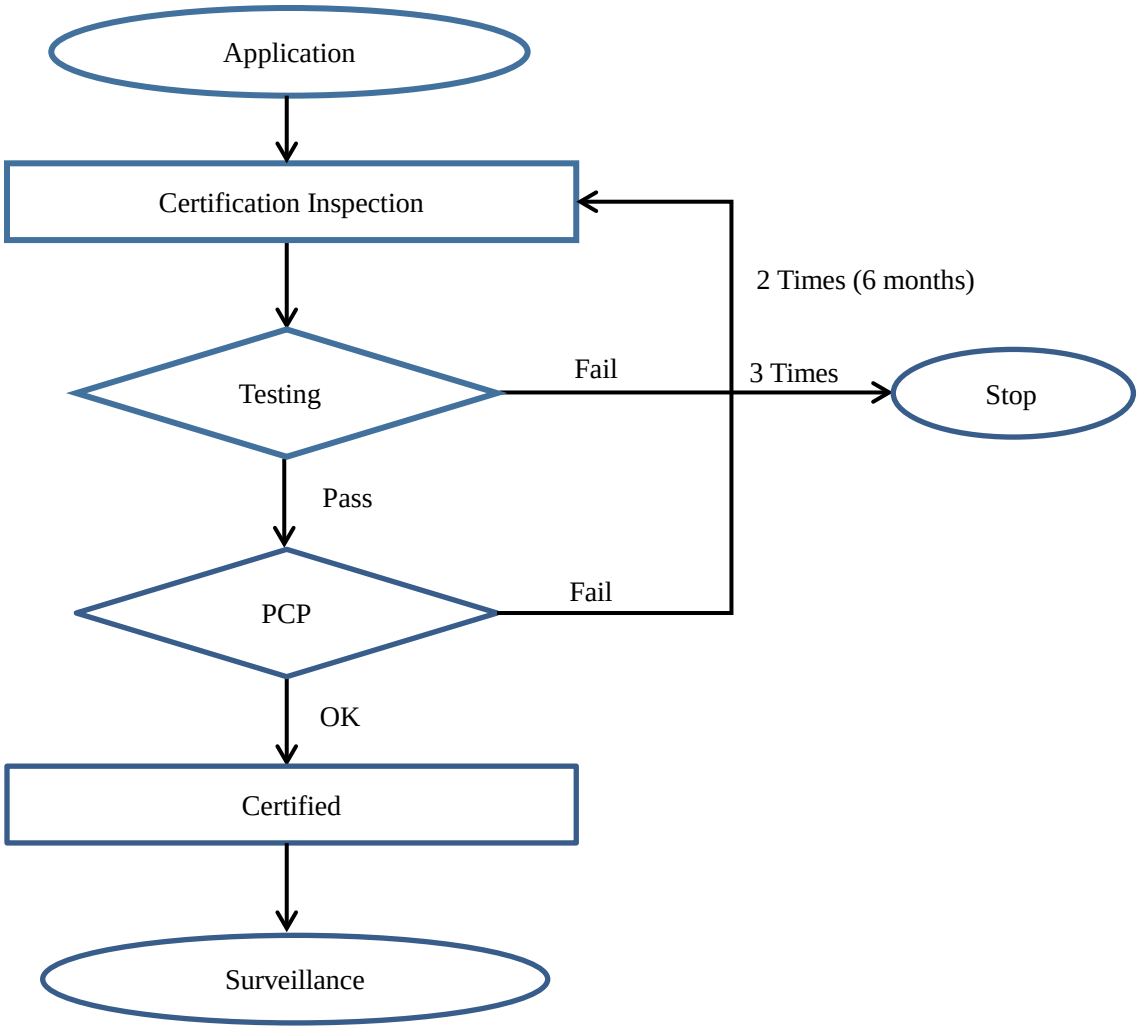
…… ……

Inspection Date : ……

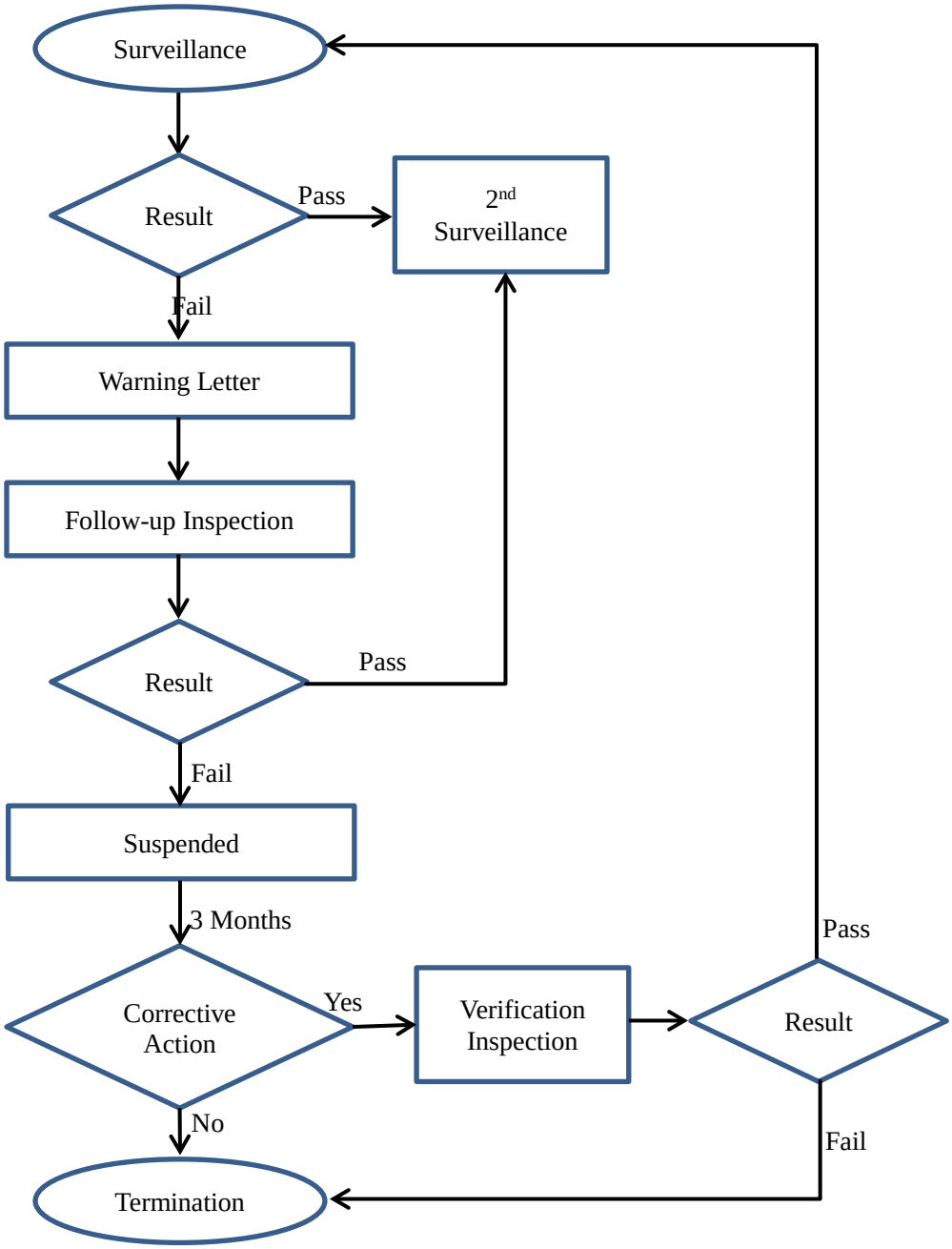
Team Leader : ……

PC Inspector : ……

Attachment 2: EKOPRENA Certification Flow Chart



Attachment 3: EKOPRENA Surveillance Inspection Flow Chart



Attachment 4: Fees and Cost of Testing for EKOPRENA Certification

PRODUCT CERTIFICATION OF EKOPRENA

FEES PAYABLE

- One time application fee.
  - RM 3,000.00
- Renewal fee for each certificate per year (payable yearly one year after the issuance of Product Certification: EKOPRENA certificate)
  - RM 500.00

COST OF TESTING

Scope: EKOPRENA

Specification	Standard referred	Cost (RM/sample)
Epoxidation level	UPB/P/022	150.00*
	ASTM 3418	200.00*
Mooney Viscosity, VR	ISO 289-1	15.00*

*The cost of testing will highly depend on annual revision by MRB.