

LEMBAGA GETAH MALAYSIA MALAYSIAN RUBBER BOARD

RUBBER RESEARCH INSTITUTE OF MALAYSIA Global Testing and Consultancy for Rubber (G-TACR)

Malaysian Rubber Board, 47000 Sungai Buloh, Selangor.
Phone: 03-61459471/61401735 Email: gtacr@lgm.gov.my
Website:https://www.lgm.gov.my/webv2/mrbServices/gtacr/(gtacr:about)



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CERTIFICATE OF VERIFICATION

ISSUED BY:

CALIBRATION LABORATORY.

GLOBAL TESTING AND CONSULTATION FOR RUBBER (G-TACR).

LEMBAGA GETAH MALAYSIA,

JALAN SUNGAI BULOH, SEKSYEN U4.

47000 SUNGAI BULOH, SELANGOR DARUL EHSAN.

DATE OF ISSUE: 08.09.2023

CERTIFICATE NUMBER: CAL / 2023 / 0184 / 1

Submitted by

PRO LAB ENGINEERING SERVICES SDN. BHD..

No. 21-G, Jalan Bidara 8, Saujana Utama 3,

47000 Sungai Buloh, Selangor.

Date Received

: 04.09.2023

Item

Casagrande Apparatus Equipment

Requirement

Verification of based hardness (IRHD)

Manufacturer

: -

Model Serial No.

: [

Lab. Ref. Number

: -

Tested by

Physical Testing Laboratory, G-TACR

Ambient temperature (°C)

 23 ± 2

Relative Humidity (%)

 55 ± 10

Test method

ISO 48-5: 2018 (IRHD)

Standard Reference (apparatus)

BS 1377 : Part 2 : 1990 Clause 4.5.2.3

Date of test

: 07.09.2023

Due date (client requested)*

. 07.00.202

Test Report Ref. No.

: CAL / 2023 / 0184 / 1

Note

This certificate valid only with above reference test report

*The user should be aware that any number of factors may cause this instrument to drift out of verification before the specified verification interval has expired.

**The results produced in this certificate just related only to the items tested or verified

Instrument Used For Verification	Equipment ID	Traceability
IRHD Durometer	ER 21.10	NMIM

Verification Result

Item	Measured (IRHD)	Standard Tolerence (IRHD)
Rubber base	81	- 0

VERIFITO BY Mohd Nizam Bin Mansor Technical Manager Calibration Laboratory



LEMBAGA GETAH MALAYSIA

MALAYSIAN RUBBER BOARD



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TEST REPORT

REPORT NO: CAL/2023/0184/1

DATE: 08.09.2023

SAMPLE DESCRIPTION

Sample description

Rubber Product (Casagrande Apparatus - Base)

Marked

Test to Standard

ISO 48-5: 2018

Date of Testing

07.09.2023

PROPERTY	OBSERVED CAL/2023/0184/1	
Hardness, IRHD*	80	
	81	
	81	
3	82	
	82	
Median :	81	

* Test On Product Surface (Base).

Shambeza Suhalt Technical Manager

Physical Testing Laboratory

Global Testing and Consultancy for Rubber (G-TACR)

ACCEPTABLE TO USE

Izatul Azira Lab Manager Pro Lab Engineering Services Sdn Bhd