SENDI MAHIR
SMSB
SENDI MAHIR SDN. BHD. 199501003943 (333138-T)
NO. 6, 8, 10 & 12, JALAN KAPAR 27/89, MEGAH INDUSTRIAL PARK,
SEKSYEN 27, 40400 SHAH ALAM, SELANGOR DARUL EHSAN, MALAYSIA.
TEL: 03-5191 7388 FAX: 03-5191 0675
EMAIL: enquiry@sendimahir.com ; marketing@sendimahir.com Website: www.sendimahir.com

ilac-MRA

STANDARDS MALAYSIA ACCREDITED
SAMM 082

CERTIFICATE OF CALIBRATION

Certificate No. : SM24168058
Issued By : Sendi Mahir Sdn Bhd

Date of Issue : 10 Sep 2024

Customer : UA RUBBER SPECIALITY CHEMICAL SDN. BHD.
NO.10-12, JALAN INDUSTRI CHEROK TO' KUN 2,
TAMAN INDUSTRI CHEROK TO' KUN
13400 BUKIT METRTAJAM PENANG, MALAYSIA.

Instrument : Durometer Hardness Tester
Manufacturer : TECLOCK
Model/Type : GS-709N
Serial No : 5477
Capacity : 0 ~ 100 units
Resolution : 1 units
Condition Upon Receiving : Good Physical Condition

Calibration Date : 09 Sep 2024
Recalibration Date Specified By Customer : 09 Sep 2025

Remark : The user should be aware that any numbers of factors may cause this instrument to drift out of calibration before the specified calibration interval has expired.

Calibration Environment Condition:
Temperature : 21.2 to 21.3 °C
Relative Humidity : 51 to 53 %rh

Condition Upon Returning : The instrument has been calibrated. The results are as follows.

Calibration Method : Internal Calibration Procedure(s) ICPF6

Calibration Venue : This Instrument has been calibrated at Sendi Mahir Sdn Bhd

Measurement Uncertainty : The reported expanded measurement uncertainty is stated as the standard measurement uncertainty multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95% and have a coverage factor of k=2 unless stated otherwise.

Reference Standard(s) Used :

Reference Standard Name	Serial No	Certificate No	Due Date	Accreditation No	Traceability
GAUGE BLOCK SET '0' (IN)	D094	NMIM-1403-M-19	26 Mar 2025	SAMM 261	NMIM(MY)
PROFILE PROJECTOR	D181	SM24132220	29 Apr 2025	SAMM 082	NMIM(MY)
DUROMETER TESTER	W006B	SM24113340	19 Feb 2025	SAMM 082	NMIM(MY)

Calibrated By: Mohd Alias

Approved Signatory: L.H. Seah

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Technical Information

Type : A
Spring Load (0 ~ 100 units) : 56.1 ~ 821.1 gf
Readability : 0.2 units
Manufacturer Specification : ± 1 units

Calibration Results :

Spring Force Measurement

Nominal Value (units)	Correction	
	Before Adjustment	After Adjustment
0	0.0	N/A
25	0.0	N/A
50	0.0	N/A
75	0.0	N/A
95	+ 0.2	N/A

Note 1: Instrument under test Measured Value = Nominal Value - Correction

**Indenter Travel Measurement*

Indenter Travel (inch)	Indicator Reading (units)
0.00	0.0
0.01	10.0
0.02	20.0
0.03	30.0
0.04	40.0
0.05	50.0
0.06	60.0
0.07	70.0
0.08	80.0
0.09	90.0
0.10	100.0

Measurement Uncertainty : ± 1 units

**Indenter Measurement*

Indenter Measurement	Specification	Measured Value	Uncertainty ±
(mm)	A		
Diameter of Indenter	1.15 ~ 1.40	1.20	0.01 mm
Diameter of indenter surface	0.76 ~ 0.82	0.80	0.01 mm
Indenter Extension	2.46 ~ 2.54	2.50	0.01 mm
Frustrum cone angle (°)	34.75 ~ 35.25	34.90	0.02 °

Remarks : Indenter Travel Measurement and Indenter Measurement is not SAMM accredited.

Note 2: To derive True Value = User Instrument Reading + Correction.

Note 3: Interpolation = Reading in between 2 test point may be derive by interpolate and plot a straight line gragh where Instrument Reading(x-axis) Vs. Correction (y-axis).

Note 4: Uncertainty = Parameter, associated with the result of measurement, that characterises the dispersion of the value that reasonably be attributed to the measurand.

Note 5: Correction can be ignore if smaller than user specification, unless otherwise user shall apply correction to derive true value.

Note 6 : If no adjustment done, refer to 'Correction before adjustment' If adjustment was done refer to 'Correction after adjustment' to derive the true value.

Note 7 : N/A - Not Available.