

NO: SAMM 489(Issue 2, 31 March 2023 replacement
of SAMM 489 dated 7 November 2022)

Page: 1 of 6

LABORATORY LOCATION:
(PERMANENT LABORATORY)**GT INSTRUMENTS SDN BHD**
2A, JALAN PTP 1/4,
TAMAN PERINDUSTRIAN TASIK PERDANA
47100 PUCHONG, SELANGOR
MALAYSIA**FIELDS OF CALIBRATION:****FORCE AND DIMENSIONAL****FIELD OF TESTING:****MECHANICAL**

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

* The uncertainty covered by the CMC is expressed as the expanded uncertainty corresponding to a coverage probability of approximately 95 % and have a coverage factor of $k=2$ unless stated otherwise.

FIELD OF CALIBRATION: FORCE**SITE CALIBRATION: CATEGORY III****SCOPE OF ACCREDITATION:**

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Tension / Compression Testing Machine			
(a) Compression mode	0 N to 500 N 0.5 kN to 5 kN 5 kN to 50 kN 10 kN to 100 kN 50 kN to 500 kN 100 kN to 1000 kN 300 kN to 3000 kN	0.13 N 4.6 N 9.4 N 75 N 0.47 kN 1.9 kN 1.9 kN	With reference to ISO 7500 - 1:2018 ASTM E4:2021

Signatories:

1. Ng Phooi Sang
2. Chen Weng Hong
3. Pang Ka Voon

NO: SAMM 489(Issue 2, 31 March 2023 replacement
of SAMM 489 dated 7 November 2022)

Page: 2 of 6

FIELD OF CALIBRATION: FORCE**SITE CALIBRATION: CATEGORY III****SCOPE OF ACCREDITATION:**

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Tension / Compression Testing Machine			
(b) Tension load (Standard Weight)	0 kg to 20 kg	0.0016 kgf	With reference to ISO 7500 - 1:2018
(Load Cell)	0 N to 500 N 0.5 kN to 5 kN 5 kN to 50 kN 10 kN to 100 kN	0.4 N 1.8 N 20 N 75 N	ASTM E4:2021

Signatories:

1. **Ng Phooi Sang**
2. **Chen Weng Hong**
3. **Pang Ka Voon**

NO: SAMM 489(Issue 2, 31 March 2023 replacement
of SAMM 489 dated 7 November 2022)

Page: 3 of 6

FIELD OF CALIBRATION: FORCE**SITE CALIBRATION: CATEGORY III****SCOPE OF ACCREDITATION:**

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Charpy Impact Tester	1 Jule to 500 Joule	1 % of reading	With reference to ASTM E23-18 ISO 148-2:2016

Signatories:

1. **Ng Phooi Sang**
2. **Chen Weng Hong**
3. **Pang Ka Voon**

NO: SAMM 489(Issue 2, 31 March 2023 replacement
of SAMM 489 dated 7 November 2022)**FIELD OF CALIBRATION: DIMENSIONAL****SCOPE OF ACCREDITATION:**

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Linear Dimension			Calibration using Profile Projector with reference to ISO 16012:2015 IEC 60811-1:2001
Length	0 mm to 180 mm	0.003 mm	
Width	0 mm to 75 mm	0.003 mm	
Angular Dimension			
Angle	0° - 90°	0.09°	
Circular Dimension			
Diameter	0 mm to 75 mm	0.013 mm	
Radius	0 mm to 75 mm	0.029 mm	

Signatories:

1. **Ng Phooi Sang**
2. **Chen Weng Hong**

Schedule

Issue date: 31 March 2023
Valid until: 6 December 2025



NO: SAMM 489

(Issue 2, 31 March 2023 replacement
of SAMM 489 dated 7 November 2022)

Page: 5 of 6

FIELD OF CALIBRATION: DIMENSIONAL

SITE CALIBRATION: CATEGORY III

SCOPE OF ACCREDITATION:

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Extensometer (Contact type only)	0 mm to 5 mm 5 mm to 25 mm 25 mm to 50 mm	0.003 mm 0.021 mm 0.044 mm	With reference to ASTM E83-16 (Type 1) ISO 9513: 2012(E) (Type A)
Long Travel Extensometer (Contact Type Only)	0 mm to 500mm	0.08mm	With reference to ASTM E83-16 (Type 2) ISO 9513: 2012(E) (Type B)
Displacement (for Universal Testing Machine Only)	0 mm to 500 mm	0.08 mm	With reference to ASTM E2309:2020
Speed (for Universal Testing Machine Only)	Up to 500 mm/min	0.1 mm /min	With reference to ASTM E2658:2015

Scan this QR Code or visit www.ism.gov.my/cab-directories for the current scope of accreditation

Signatories:

1. **Ng Phooi Sang**
2. **Chen Weng Hong**
3. **Pang Ka Voon**

NO: SMM 489(Issue 2, 31 March 2023 replacement
of SMM 489 dated 7 November 2022)**FIELD OF TESTING: MECHANICAL****SCOPE OF TESTING:**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Rubber and Rubber Products and Gloves	Tensile Properties (Test Method)	ISO 37:2017 ASTM D412-16 (2021)
		EN 455-2:2015 ISO 11193-1:2020 ISO 10282:2014 ASTM D3578-19 ASTM D6319-19 ASTM D4679:02(2015) ASTM D3577-19
	Accelerated Aging and Heat Resistance Test	ISO 188:2011
Plastics and Plastics Composite	Tensile Strength, Yield Strength and Elongation at Break	ISO 527-1:2019 ASTM D638:2014
		ISO 527-2:2012
	Flexural Strength, Flexural Modulus	ASTM D790:2017 ISO 178:2019 Property Type I, II

Scan this QR Code or visit www.ism.gov.my/cab-directories for the current scope of accreditation**Signatories:**

1. **Ng Phooi Sang**
2. **Pang Ka Voon**
3. **Hairi Bin Hamidun**