

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 657

(Issue 1, 06 April 2025 replacement
of SAMM 657 dated 06 April 2025)

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LABORATORY LOCATION/ CENTRAL OFFICE:	MTSC Technology Sdn Bhd No. 43, Jalan 4, Medan Putra Business Centre Bandar Sri Manjalara 52200 WP Kuala Lumpur , 52200, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) OF TESTING:	ELECTRICAL MECHANICAL VIBRATION
FIELD(S) OF CALIBRATION:	TEMPERATURE

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.**

CENTRAL LOCATION:	MTSC Technology Sdn Bhd No. 43, Jalan 4, Medan Putra Business Centre Bandar Sri Manjalara 52200 WP Kuala Lumpur , 52200, Selangor
FIELD(S) OF TESTING :	MECHANICAL, MECHANICAL, MECHANICAL

SCOPE OF TESTING : ELECTRICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
& Electronic	c) X, Y, Z Direction	None
(eg. Brake Pipe,	Immersion Test	None
1. Led/solid	Full Type Test	IES LM 80: 2015
Assembly, Finished	30°C to 80°C	None
Automotive Parts	Solvent Resistance	Q/JLY J7110339C-2015 Clause 5.10
Automotive Parts,	Dry Heat	IEC 60068-2-2:2007 Clause 5.2 Test Bb

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Vibration:	IEC 60068-2-6: 2007 Clause 8.3
Board Assembly,	b) up to 50.0 ms-2	None
Brake Tubing)	Immersion Test	None
	Cleanliness Test	Q/JLY J7110339C-2015 Clause 5.16
	Solvent Resistance Friction	Q/JLY J7110339C-2015 Clause 5.15
	Test	None
	Scoring and Condensation	J7110339C-2015 Clause 5.9
	Test	None
	Adhesion Test of Coating	J7110339C-2015 Clause 5.11
	Salt Spray Test	ASTM B117-07a (2007)
	Salt Spray Test	J7110339C-2015 Clause 5.7.1
Electrical &	Heat Cycle Resistance Test	In-house Method MTSC -025 based on PES-6025
Electronic Product	-30 °C to 80 °C	Clause 3.3
	33% RH to 98% RH	Dated 15/10/2010)
	Temperature Cycle Test -" -40 °C to 130 °C	IEC 60068-2-14 Ed 6.0 (2009-01) Test Nb
	Rapid Change of	IEC 60068-2-14 Ed 6.0 (Na & Nc)
	Temperature Test	None
	Cold Test	IEC 60068-2-1 Ed 5.2 (Aa & Ab)
	Damp Heat Steady State Test	Test instruction reference to IEC
Finished Electrical	c) X, Y, Z Direction	None
Lighting Products	Full Type Test	IES LM 79: 2019
Moulding, Beltline	Compression load deflection	Clause 5.1, 7233Z-STX-A010-M1 Clause 5.1,
	Compression load deflection	PES2017 Clause 8.1.7,
	Sliding load	DTSM1707G Clause 7.2.4
	Compression Set	DTSM1707G Clause 7.2.5, PES2017 Clause 8.1.8,
	Compression Set	7241Z-T2A-A000 Clause 5.2, 7233Z-STX-A010-M1
	Compression Set	Clause 5.2
	Abrasion Resistance Test	DTSM1707G Clause 7.2.9, 7241Z-T2A-A000
	(Wear Resistance Test)	Clause 5.25, 7233Z-STX-A010-M1 Clause 5.11,
	(Wear Resistance Test)	ES-X62028 Clause 4.5, ES-X 31040, ES-X82035,
	(Wear Resistance Test)	Clause 1.14, PES4081 Clause 4.6, PES4081
	(Wear Resistance Test)	Clause 4.6, 7233Z-STX-A010-M1 Clause 5.12,
	Glass surface stain adhesion	DTSM1707G Clause 7.2.12
	Moist heat resistance	DTSM1707G Clause 7.2.13, 7241Z-T2A-A000

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Moist heat resistance	Clause 5.13, 7233Z-STX-A010-M1 Clause 5.8,
	Moist heat resistance	7241Z-T2A-A000 Clause 5.17, TSM1720G 5.3.26,
	Whitening Resistance	DTSM1707G Clause 7.2.15, DTSF7754G Clause
	Whitening Resistance	7.14, DTSF7690G Clause 8.10, DTSF7350G
	Whitening Resistance	Clause 4.11, TSM1720G Clause 5.3.4, DTSF7352G
	Whitening Resistance	Clause 4.9
	Resistance Test (Carbon Arc)	8460Z-T00-0000 Clause 7.1, DTSM0502G Clause
	Resistance Test (Carbon Arc)	4.7.3, DTSM0501G Clause 9.20, Clause
	Resistance Test (Carbon Arc)	DTSM1501G Clause 8.9
	Accelerated Weather	DTSM0502G clause 4.7.4(1), DTSM0501G Clause
	Resistance Test (Xenon)	9.20, PES 6024 clause 4.14.1A, ES-X83239 Clause
	Resistance Test (Xenon)	4.14, TSH3131G Clause 3.15.2 & DTSH1585G,
	Resistance Test (Xenon)	8460Z-T00-0000 Clause 7.1, Clause
	Resistance Test (Xenon)	5.2 & 5.5, ISO 11341
Printed Circuit	a) 5 Hz to 2 kHz	None
Printed Circuit Board	30°C to 80°C	None
Product	c) X, Y, Z Direction	None
State Lighting	Full Type Test	None
Sunvisor	Operation Torque Test	Geely Standard Q/JLY J7110843B-2016 Clause 5.3
	Rotational Durability Test	Geely Standard Q/JLY
	Rotational Durability Test	J7110843B-2016 Clause 5.4
Tint Film	Solar Performance Test	MS 2669: 2017
	Weathering Test	None
	Boil Test	None
	Bake Test	MS 2669: 2017, AMD. 1:2018 Clause 4.4.2
Weather Strip, Roof	Compression load deflection	DTSM1707G Clause 7.2.3, 7241Z-T2A-A000
	Accelerated Weather	JIS DO205, JASO M305, DTSF3350 Clause 6.5,

SCOPE OF TESTING : MECHANICAL

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& Electronic	c) X, Y, Z Direction	None
(eg. Brake Pipe,	Immersion Test	None
1. Led/solid	Full Type Test	IES LM 80: 2015
Assembly, Finished	30°C to 80°C	None
Automotive Parts	Solvent Resistance	Q/JLY J7110339C-2015 Clause 5.10
Automotive Parts,	Dry Heat	IEC 60068-2-2:2007 Clause 5.2 Test Bb
	Vibration:	IEC 60068-2-6: 2007 Clause 8.3
Board Assembly,	b) up to 50.0 ms-2	None
Brake Tubing)	Immersion Test	None
	Cleanliness Test	Q/JLY J7110339C-2015 Clause 5.16
	Solvent Resistance Friction	Q/JLY J7110339C-2015 Clause 5.15
	Test	None
	Scoring and Condensation	J7110339C-2015 Clause 5.9
	Test	None
	Adhesion Test of Coating	J7110339C-2015 Clause 5.11
	Salt Spray Test	ASTM B117-07a (2007)
	Salt Spray Test	J7110339C-2015 Clause 5.7.1
Electrical &	Heat Cycle Resistance Test	In-house Method MTSC -025 based on PES-6025
Electronic Product	-30 °C to 80 °C	Clause 3.3
	33% RH to 98% RH	Dated 15/10/2010)
	Temperature Cycle Test -" -40 °C to 130 °C	IEC 60068-2-14 Ed 6.0 (2009-01) Test Nb
	Rapid Change of	IEC 60068-2-14 Ed 6.0 (Na & Nc)
	Temperature Test	None
	Cold Test	IEC 60068-2-1 Ed 5.2 (Aa & Ab)
	Damp Heat Steady State Test	Test instruction reference to IEC
Finished Electrical	c) X, Y, Z Direction	None
Lighting Products	Full Type Test	IES LM 79: 2019
Moulding, Beltline	Compression load deflection	Clause 5.1, 7233Z-STX-A010-M1
	Compression load deflection	Clause 5.1,
	Sliding load	PES2017 Clause 8.1.7,
	Compression Set	DTSM1707G Clause 7.2.4
	Compression Set	DTSM1707G Clause 7.2.5,
	Compression Set	PES2017 Clause 8.1.8,
	Compression Set	7241Z-T2A-A000 Clause 5.2,
	Compression Set	7233Z-STX-A010-M1
	Abrasion Resistance Test	Clause 5.2
	(Wear Resistance Test)	DTSM1707G Clause 7.2.9, 7241Z-T2A-A000
	(Wear Resistance Test)	Clause 5.25, 7233Z-STX-A010-M1
	(Wear Resistance Test)	Clause 5.11,
	(Wear Resistance Test)	ES-X62028 Clause 4.5, ES-X 31040, ES-X82035,

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	(Wear Resistance Test)	Clause 1.14, PES4081 Clause 4.6, PES4081
	(Wear Resistance Test)	Clause 4.6, 7233Z-STX-A010-M1 Clause 5.12,
	Glass surface stain adhesion	DTSM1707G Clause 7.2.12
	Moist heat resistance	DTSM1707G Clause 7.2.13, 7241Z-T2A-A000
	Moist heat resistance	Clause 5.13, 7233Z-STX-A010-M1 Clause 5.8,
	Moist heat resistance	7241Z-T2A-A000 Clause 5.17, TSM1720G 5.3.26,
	Whitening Resistance	DTSM1707G Clause 7.2.15, DTSF7754G Clause
	Whitening Resistance	7.14, DTSF7690G Clause 8.10, DTSF7350G
	Whitening Resistance	Clause 4.11, TSM1720G Clause 5.3.4, DTSF7352G
	Whitening Resistance	Clause 4.9
	Resistance Test (Carbon Arc)	8460Z-T00-0000 Clause 7.1, DTSM0502G Clause
	Resistance Test (Carbon Arc)	4.7.3, DTSM0501G Clause 9.20, Clause
	Resistance Test (Carbon Arc)	DTSM1501G Clause 8.9
	Accelerated Weather	DTSM0502G clause 4.7.4(1), DTSM0501G Clause
	Resistance Test (Xenon)	9.20, PES 6024 clause 4.14.1A, ES-X83239 Clause
	Resistance Test (Xenon)	4.14, TSH3131G Clause 3.15.2 & DTSH1585G,
	Resistance Test (Xenon)	8460Z-T00-0000 Clause 7.1, Clause
	Resistance Test (Xenon)	5.2 & 5.5, ISO 11341
Printed Circuit	a) 5 Hz to 2 kHz	None
Printed Circuit Board	30°C to 80°C	None
Product	c) X, Y, Z Direction	None
State Lighting	Full Type Test	None
Sunvisor	Operation Torque Test	Geely Standard Q/JLY J7110843B-2016 Clause 5.3
	Rotational Durability Test	Geely Standard Q/JLY
	Rotational Durability Test	J7110843B-2016 Clause 5.4
Tint Film	Solar Performance Test	MS 2669: 2017
	Weathering Test	None
	Boil Test	None
	Bake Test	MS 2669: 2017, AMD. 1:2018 Clause 4.4.2
Weather Strip, Roof	Compression load deflection	DTSM1707G Clause 7.2.3, 7241Z-T2A-A000

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Accelerated Weather	JIS DO205, JASO M305, DTSF3350 Clause 6.5,

SCOPE OF TESTING : VIBRATION

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
& Electronic	c) X, Y, Z Direction	None
(eg. Brake Pipe,	Immersion Test	None
1. Led/solid	Full Type Test	IES LM 80: 2015
Assembly, Finished	30°C to 80°C	None
Automotive Parts	Solvent Resistance	Q/JLY J7110339C-2015 Clause 5.10
Automotive Parts,	Dry Heat	IEC 60068-2-2:2007 Clause 5.2 Test Bb
	Vibration:	IEC 60068-2-6: 2007 Clause 8.3
Board Assembly,	b) up to 50.0 ms-2	None
Brake Tubing)	Immersion Test	None
	Cleanliness Test	Q/JLY J7110339C-2015 Clause 5.16
	Solvent Resistance Friction	Q/JLY J7110339C-2015 Clause 5.15
	Test	None
	Scoring and Condensation	J7110339C-2015 Clause 5.9
	Test	None
	Adhesion Test of Coating	J7110339C-2015 Clause 5.11
	Salt Spray Test	ASTM B117-07a (2007)
	Salt Spray Test	J7110339C-2015 Clause 5.7.1
Electrical &	Heat Cycle Resistance Test	In-house Method MTSC -025 based on PES-6025
Electronic Product	-30 °C to 80 °C	Clause 3.3
	33% RH to 98% RH	Dated 15/10/2010)
	Temperature Cycle Test -" -40 °C to 130 °C	IEC 60068-2-14 Ed 6.0 (2009-01) Test Nb
	Rapid Change of	IEC 60068-2-14 Ed 6.0 (Na & Nc)
	Temperature Test	None
	Cold Test	IEC 60068-2-1 Ed 5.2 (Aa & Ab)
	Damp Heat Steady State Test	Test instruction reference to IEC
Finished Electrical	c) X, Y, Z Direction	None
Lighting Products	Full Type Test	IES LM 79: 2019
Moulding, Beltline	Compression load deflection	Clause 5.1, 7233Z-STX-A010-M1 Clause 5.1,
	Compression load deflection	PES2017 Clause 8.1.7,
	Sliding load	DTSM1707G Clause 7.2.4

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	Compression Set	DTSM1707G Clause 7.2.5, PES2017 Clause 8.1.8,
	Compression Set	7241Z-T2A-A000 Clause 5.2, 7233Z-STX-A010-M1
	Compression Set	Clause 5.2
	Abrasion Resistance Test	DTSM1707G Clause 7.2.9, 7241Z-T2A-A000
	(Wear Resistance Test)	Clause 5.25, 7233Z-STX-A010-M1 Clause 5.11,
	(Wear Resistance Test)	ES-X62028 Clause 4.5, ES-X 31040, ES-X82035,
	(Wear Resistance Test)	Clause 1.14, PES4081 Clause 4.6, PES4081
	(Wear Resistance Test)	Clause 4.6, 7233Z-STX-A010-M1 Clause 5.12,
	Glass surface stain adhesion	DTSM1707G Clause 7.2.12
	Moist heat resistance	DTSM1707G Clause 7.2.13, 7241Z-T2A-A000
	Moist heat resistance	Clause 5.13, 7233Z-STX-A010-M1 Clause 5.8,
	Moist heat resistance	7241Z-T2A-A000 Clause 5.17, TSM1720G 5.3.26,
	Whitening Resistance	DTSM1707G Clause 7.2.15, DTSF7754G Clause
	Whitening Resistance	7.14, DTSF7690G Clause 8.10, DTSF7350G
	Whitening Resistance	Clause 4.11, TSM1720G Clause 5.3.4, DTSF7352G
	Whitening Resistance	Clause 4.9
	Resistance Test (Carbon Arc)	8460Z-T00-0000 Clause 7.1, DTSM0502G Clause
	Resistance Test (Carbon Arc)	4.7.3, DTSM0501G Clause 9.20, Clause
	Resistance Test (Carbon Arc)	DTSM1501G Clause 8.9
	Accelerated Weather	DTSM0502G clause 4.7.4(1), DTSM0501G Clause
	Resistance Test (Xenon)	9.20, PES 6024 clause 4.14.1A, ES-X83239 Clause
	Resistance Test (Xenon)	4.14, TSH3131G Clause 3.15.2 & DTSH1585G,
	Resistance Test (Xenon)	8460Z-T00-0000 Clause 7.1, Clause
	Resistance Test (Xenon)	5.2 & 5.5, ISO 11341
Printed Circuit	a) 5 Hz to 2 kHz	None
Printed Circuit Board	30°C to 80°C	None
Product	c) X, Y, Z Direction	None
State Lighting	Full Type Test	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Sunvisor	Operation Torque Test	Geely Standard Q/JLY J7110843B-2016 Clause 5.3
	Rotational Durability Test	Geely Standard Q/JLY
	Rotational Durability Test	J7110843B-2016 Clause 5.4
Tint Film	Solar Performance Test	MS 2669: 2017
	Weathering Test	None
	Boil Test	None
	Bake Test	MS 2669: 2017, AMD. 1:2018 Clause 4.4.2
Weather Strip, Roof	Compression load deflection	DTSM1707G Clause 7.2.3, 7241Z-T2A-A000
	Accelerated Weather	JIS DO205, JASO M305, DTSF3350 Clause 6.5,

SCOPE OF TESTING : ELECTRICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
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SCOPE OF TESTING : MECHANICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
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SCOPE OF TESTING : VIBRATION

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
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SCOPE OF TESTING : ELECTRICAL

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SCOPE OF TESTING : MECHANICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
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SCOPE OF TESTING : VIBRATION

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
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CENTRAL LOCATION	MTSC Technology Sdn Bhd No. 43, Jalan 4, Medan Putra Business Centre Bandar Sri Manjalara 52200 WP Kuala Lumpur , 52200, Selangor
FIELD(S) OF CALIBRATION :	HEAT & TEMPERATURE,

SCOPE OF CALIBRATION : TEMPERATURE

Instrument Calibrated/Masurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
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