

**Accreditation scope**

Name of the accredited subject: **Yanfeng International Automotive Technology Slovakia, s.r.o**  
Twin City C, Mlynské nivy 14, 821 09 Bratislava  
**Odštepňný závod Trenčín**  
**Skúšobné laboratórium**  
Bratislavská 517, 911 05 Trenčín

**Fixed accreditation scope of testing laboratory.**

Item	Object		Established method		Other specifications (scope, uncertainty, purpose, modification/validation, opinions/interpretations, etc.)
	Subject / Matrix/ Environment	Property /Parameter /Pointer /Analyte	Principle / Type	Subject / Matrix / Environment	
1	Instrument panel, Door panel, Floor console (plastic, foam, leather, textile)	Abrasion resistance	Visual evaluation	ISO 9352 ISO 5470-1 TN-SM-ST-G11-07-E	SAE J948 BN 108-02 GMW 3208
2		Color change	Photometry	DIN EN ISO 11664-3-4	
3		Scratch resistance	Color/Gloss change measurement	TN-SM-ST-G11-18-E	GS 97034-8 MBN 55555-6 GMW 14688 PV 3952
4		Scratch resistance	Visual evaluation	TN-SM-ST-G11-25-E	GS 97034-8/9 PV 3952
5		Gloss	Reflectance	DIN EN ISO 2813 ASTM D523 ASTM C584 ASTM D2457 EN ISO 7668	
6		Adhesion	Visual evaluation	DIN EN ISO 2409 TN-SM-ST-G11-21-E	VCS 1029, 54729
7		Softening temperature of the material	Temperature measurement	DIN EN ISO 306 DIN EN ISO 75- 1 (TN-SM-ST-G11-11-E)	
8		Odour	Sensory test	TN-SM-ST- G11-10-E	VDA 270 BO 131-03 GMW 3205 VCS 1027, 2729 PV 3900
9		Light Resistance	Visual evaluation/ Photometry	DIN EN ISO 105-B06 ISO 105-B02, ISO 105-B04, ISO 105-B06, ISO 12040, ISO 4892-2 (TN-SM-ST- G11-13-E)	VDA 75202 SAE J2412, SAE J2527, BO 116-01 GMW 14162 VCS 1026, 82429 PV 1303
10		Density	Weight measurement	DIN EN ISO 1183-1 A (TN-SM-ST-G11-14-E)	
11		Ash	Weight measurement	DIN EN ISO 3451-1 DIN EN ISO 1172 (TN-SM-ST-G11-15-E)	
12		Length/thicknes s	Measurement of dimensions	DIN EN ISO 2286-3	
13		Deformation form	Measurement of dimensions/ Photometry	TN-SM-ST-G11-30-E	

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14	Instrument panel, Door panel, Floor console (plastic, foam, leather, textile)	Abrasion resistance	Visual evaluation Photometry	DIN EN ISO 105-X 12 TN-SM-ST-G11-17-E	MBN 55555-6 MBN 55555-7
15		Abrasion and scratch resistance	Visual evaluation	DIN EN 60068-2-70 (TN-SM-ST-G11-24-11)	GS 97034-1/2/3/4A-/5-A/6-
16		Strength (Dynstat)	Impact test	DIN 53435 (TN-SM-ST- G11-06-E)	
17		Strength (Izod)	Impact test	DIN EN ISO 180 (TN-SM-ST-G11 -05-E)	
18		Strength (Charpy)	Impact test	DIN EN ISO 179-1 (TN-SM-ST- G11-05-E)	
19		Strength, elongation, bending	Force and length measurement	DIN EN ISO 527-1 DIN EN ISO 527-2 DIN EN ISO 527-3 DIN EN ISO 527-4 DIN ISO 34-1 DIN ISO 178 ISO 28510-1 DIN EN 1372 DIN EN 310 DIN EN ISO 13934-1 DIN EN ISO 13937-2 DIN EN 29073 DIN 53504 (TN-SM-ST- G11-12-E)	
20		Fogging	Reflectometric measurement of gloss	DIN 75201 (TN-SM-ST- G11-20-E)	SAE J1756 GMW 3235 VCS 1027, 2719
21		Fogging	Weight measurement	DIN 75201 ISO 6452 (TN-SM-ST- G11-16-E)	SAE J1756 GMW 3235 VCS 1027, 2719 PV 3015
22		Flammability	Measure length and time	DIN 75200 ISO 3795 (TN-SM-ST- G11-04-E)	FMVSS 302 GS 97038 DBL 5307 GMW 3232 VCS 5031,19 TL 1010,
23		Peel Test	Force measurement	DIN EN 1372 (TN-SM-ST-G11-31-E)	MBN 55555-6, PV 2034, PR 326.6,
24		Foam Adhesion	Visual Evaluation	TN-SM-ST-G11-34-E	MBN 55555-6 TL 52296 PR 326.6 GS 97012 PR 524
25		Ball drop test	Visual Evaluation	TN-SM-ST-G11-36-E	PV 3905 TREG-33579402-01-2 MBN 55555-6

## Flexible accreditation scope of texting laboratory.

Item	Object		Established method		Other specifications (scope, uncertainty, purpose, modification/validation, opinions/interpretations, etc.)
	Subject / Matrix/ Environment	Property /Parameter /Pointer /Analyte	Principle / Type	Subject / Matrix / Environment	
1	Instrument panel, Door panel, Floor console (plastic, foam, leather, textile)	Resistance to temperature and radiation	Visual evaluation	DIN 75220 (TN-SM-ST-G11-09-E)	VDA 230-219 A 001 006 00 99 Range: -40°C to +130 °C 10% to 98 % R.H. -3°C to +94°C Do 1200 W/m <sup>2</sup>
2		Resistance to climatic conditions	Visual evaluation	DIN EN 60068-2-1 DIN EN 60068-2-2 DIN EN 60068-2-14 DIN EN 60068-2-30 D47 1309 (TN-SM-ST-G11-26-E)	PR 308.2 PR 303.5 PV 1200 PV 2005 TREG33579402 MBN 55555-4 A 005 005 44 99 QEV111AHFE1W QEV111AHFE1Z QEV111AHFM22 QEV111AHE1W4 QEV111AF2AAH -40°C to +150 °C 10% to 98 % R.H. -3°C to +94°C
3		Abrasion resistance	Visual evaluation Photometry	DIN EN ISO 105-X 12 (TN-SM-ST-G11-17-E)	MBN 55555-6, MBN 55555-7 PV 3906 VCS 1026, 84329
4		Abrasion and scratch resistance	Visual evaluation	DIN EN 60068-2-70 (TN-SM-ST-G11-24-E)	GS 97034-1/2/3/4A-/5-A/6- DBL 7384 DBL 9202
5		Instrument panel	Airbag deployment	Visual evaluation Measure weight and time	TN-SM-ST-G11-39-E

**To mark the required scope of flexibility (in case the CAB requests a flexible scope of accreditation):**

The laboratory may modify and validate those test methods in the accreditation field, while maintaining the measurement principle.

Flexibility does not apply to changing the principle of the methods used in a given flexible scope.

The laboratory keeps an up-to-date list of all test methods with a flexible scope of accreditation on the <https://www.yfai.com/en/technical-center-trencin>

The principle of flexibility can be used by the laboratory within the framework of:

- matrices,  
 indicators,  
 measuring ranges  
 procedures used for testing.

**Personnel competent to modify and validate methods/develop new methods during the validity of the accreditation**

First and last name, titles	Ability to modify and validate methods/develop new methods – item in in activity specification No.
Petra Kehrbusch	1,2, 3, 4
Marek Dian	1, 2
Ladislav Ďuriš	5