**Annex to the Certificate of Accreditation No. S-043 dated 31.03.2026.**

*The Annex is an integral part of the Certificate of Accreditation*

# Scope of Accreditation

**Accredited body:** VÚSAPL, a.s.
Novozámocká 5154/179C, 949 05 Nitra

**Organizational unit performing the activity of the accredited body:**
Department of testing laboratories

**Place of performance of the accredited body:**
Novozámocká 5154/179C, 949 05 Nitra

**Identification number of the accredited body:** 005/S-043

## Laboratory with fixed scope

| Item | Test object | | Established method | | Other specifications (modification/ validation, opinions/ interpretations, workplace etc.) |
|---|---|---|---|---|---|
| | Subject / Matrix / Environment | Property / Parameter / Indicator / Analyte | Principle / Type | Label | |
| 1 | Plastics, rubber | Density | Hydrostatic method | STN EN ISO 1183-1 | |
| 2 | | Volatile substances | Gravimetry | STN 64 0311<br>STN 64 0316<br>ŠPP A 45/2025<br>DIN 75201<br>STN EN ISO 3344<br>GME 60326<br>PV 3015<br>SAE J1756<br>ISO 6452<br>VCS 1027, 2719<br>D45 1727 | |
| 3 | | Ash content | Gravimetry | STN EN ISO 3451-1<br>(ŠPP A 03/1991)<br>STN EN ISO 3451-4,5<br>STN EN ISO 1172<br>ŠPP A 44/2025<br>ŠPP A 02/1991<br>(STN 64 0313) | |
| 4 | Plastics | Melt flow index | Rheology | STN EN ISO 1133-1<br>STN EN ISO 1133-2<br>ASTMD 1238 | |
| 5 | Plastics, rubber | Water absorption | Gravimetry | STN EN ISO 62<br>STN EN ISO 16535<br>STN EN ISO 29767 | |
| 6 | Plastics | Viscosity number | Viscosimetry | STN EN ISO 307<br>STN EN ISO 1628-1<br>STN EN ISO 1628-5 | |
| 7 | Plastics, rubber | Identification of polymers and additives | Infraredspectro-photometry (qualitative test) | ŠPP A 06/91<br>(Hummel, D., Schol, F: Atlas der Polymer- und Kunststoffanalyse; Carl Hanser Verlag, München, 1978) | |
| | | | Thermal analysis | STN EN ISO 11357-1<br>STN EN ISO 11357-2,3 | |
| 8 | Plastics | Glass transition temperature<br>Melting point,<br>Crystallization temperature,<br>Latent heat<br>Onset melting temperature (Onset)<br>Thermooxidation temperature | Thermal analysis | STN EN ISO 11357-1<br>STN EN ISO 11357-2,3 | |

SLOVENSKÁ NÁRODNÁ AKREDITAČNÁ SLUŽBA SNAS

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|---|---|---|---|---|---|
| | **Subject / Matrix / Environment** | **Property / Parameter / Indicator / Analyte** | **Principle / Type** | **Label** | |
| 9 | Plastics, rubber | Flammability | Measurement of the burning time and burning rate * | STN EN 60695-11-10<br>TL 1010<br>STN ISO 3795<br>FMVSS 302<br>MS 300-08<br>GS 97038<br>DIN 75 200<br>TSM0500G<br>D45 1333<br>VCS 5031,19<br>GMW 3232<br>FIAT 7 – G 2000<br>DBL 5307<br>SAE J369<br>ASTM D5132<br>Toyota TSM 0500G<br>PV 3904<br>SWF 47.000<br>PTL 8501 | |
| | | | Glow wire flammability test (qualitative test) | STN EN IEC 60695-2-11,12,13<br>UL 94 | |
| 10 | | Transmittance, Light reflection,<br>Color<br>Gloss | UV-VIS Spectral methods * | ŠPP A 05/2007<br>(STN EN ISO 13468-1)<br>ŠPP A 04/2019<br>(Güntl Kämpf: Charakterization of plastics by physical methods, Hanser Publihers, München, 1986)<br>ISO 2813 | |
| 11 | Plastics, rubber, textilies | Tensile propeties | Force measurement | STN EN ISO 527-1,2<br>STN EN ISO 527-3<br>STN EN ISO 527-4,5<br>STN 64 6010, čl. 32<br>STN 77 0140<br>STN EN ISO 6259-1<br>STN EN ISO 6259-3<br>ASTM D638<br>STN EN 1607<br>STN EN ISO 293<br>STN EN ISO 294-1,2,3,4<br>STN EN ISO 2818<br>ČSN ISO 37<br>STN EN ISO 6383-1<br>ČSN ISO 34-1 | |
| 12 | Plastics, rubber | Flexural properties | Flexural measurement | STN EN ISO 178<br>STN EN 12089<br>STN EN ISO 14125<br>ASTM D790 | |
| 13 | | Impact resistance | Impact resistance | STN EN ISO 179-1<br>STN EN ISO 8256 | |
| 14 | | Hardness | Indentation hardness | STN EN ISO 2039-1<br>STN EN ISO 868 | |
| 15 | | Heat resistance | Measurement of temperature | STN EN ISO 306<br>STN EN ISO 75-1,2,3<br>STN EN ISO 2507-1,2 | |

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|---|---|---|---|---|---|
| | Subject / Matrix / Environment | Property / Parameter / Indicator / Analyte | Principle / Type | Label | |
| 16 | Plastics, rubber | Odor | Sensory test (qualitative test) | STN 77 0226<br>PV 3900<br>GME 60276<br>VDA 270<br>MS 300-34<br>GMW 3205<br>FLTM BO 131-01, 03<br>D10 5517<br>VCS 1027, 2729<br>TPJLR 52.458 | |
| 17 | | Compressive strength | Force measurement, deformation measurement | STN EN ISO 604<br>STN EN 826<br>STN EN ISO 3386-1,2<br>STN EN 12608-1+A1<br>STN EN 514<br>STN EN ISO 9969<br>STN ISO 13967<br>STN EN 13968 | |
| 18 | | Weight | Weighing a known volume (bulk density) | STN EN ISO 60 | |
| | | | Dimension measurement and weighing (Mass per unit area) | STN 64 7011 | |
| | | | Measurement of dimensions and weighing (volume weight) | STN EN ISO 845<br>STN EN ISO 29470 | |
| | | | Length measurement and weighing (length weight) | STN EN 12608-1+A1 | |
| 19 | | Dimensions<br>Dimensional stability | Dimensions measurement | STN 64 0181<br>STN 64 7010<br>STN EN 1013<br>STN EN ISO 1923<br>STN EN ISO 29465<br>STN EN ISO 29466<br>STN EN 824<br>STN EN ISO 29468<br>STN EN ISO 3126<br>STN EN ISO 11501<br>DIN 53497<br>STN 64 5405<br>STN EN 13163<br>STN EN 1603<br>STN EN 479<br>STN EN ISO 2505<br>STN EN 12608-1+A1 | |
| 20 | Plastics, rubber, petroleum products | Appearance (color, colorfastness, marking) | Visual assessment (qualitative test) | STN 64 0011<br>STN EN 20105-A02<br>ISO 105-A02<br>STN EN ISO 105-A03<br>STN EN ISO 105-B01<br>STD 1026.8201<br>STN EN ISO 4628-1,2 | |

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|---|---|---|---|---|---|
| | **Subject / Matrix / Environment** | **Property / Parameter / Indicator / Analyte** | **Principle / Type** | **Label** | |
| 21 | Plastics, rubber | Durability of operational reliability | Thermal ageing, appearance after exposition (qualitative test) | STN EN 12608-1+A1<br>STN EN 478<br>STN EN ISO 580<br>DIN 53 497<br>ŠPP FM 53/2011<br>(PV 1200, PV 2005, met. A) | |
| | | | Environmental cyclic changes (qualitative test) | ŠPP FM 53/2011<br>(PV 1200, PV 2005, met. A)<br>STN EN ISO 4628-1,2, 5<br>STN EN 60068-2-14 | |
| | | | Chemicals resistance (qualitative test) | MS 210-05<br>STN EN ISO 175<br>ŠPP A 41/19 (TP JLR 52.155, TP JLR 52.156, MS 210-05)<br>STN EN ISO 9852<br>TL 52631<br>FLTM BN 112-08<br>VOLVO 85042802<br>VOLVO 85000150<br>TL 226<br>TL 211 | |
| | | | Scratch resistance (qualitative test) | STN EN ISO 2409<br>PV 3952<br>PV 3974<br>PV 3966<br>TL 226<br>TPJLR 52.004<br>TPJLR.52.008<br>TPJLR.52.010<br>LP-463DD-18-02<br>FLTM BO 162-01<br>MS 210-05 | |
| | | | Abrasion resistance (qualitative test) | STN EN ISO 105- X12<br>PV 3906 | |
| 22 | Chemical products, petroleum products | Viscosity | Viscosimetry | STN EN ISO 3104<br>(ŠPP A 24/2000)<br>(Merací postup č. 13/1 pre meranie kinematickej viskozity, Kalibračné združenie SR, SMÚ, Bratislava, 1997)<br>STN 65 6218 | |
| 23 | Chemical products, petroleum products Plastics, rubber | Water content | Coulometry | STN ISO 760<br>STN EN ISO 12937<br>ISO 15512 | |
| 24 | Plastics, rubber | Emissions of organic compounds | GC - FID | PV 3341<br>VDA 277 | |

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| | **Subject / Matrix / Environment** | **Property / Parameter / Indicator / Analyte** | **Principle / Type** | **Label** | |
| 25 | Plastics, rubber, textilies | Accelerated aging by simulating sunlight | Visual assessment (qualitative test) | PV 1303<br>PV 1306<br>SAE J 2527<br>SAE J 2412<br>SAE J 1885<br>D47 1431<br>FIAT 50451<br>STD 1027,337<br>EN ISO 105-B02<br>EN ISO 105-B04<br>EN ISO 105-B06<br>GMW 3414<br>VDA 75202<br>PV 3930<br>PV 3929<br>EN ISO 4892-2<br>EN ISO 4892-1 | |
| 26 | | Impact resistance | Ball drop test (qualitative test) | PV 3989<br>PV 3905<br>PV 3966<br>MS 210-05<br>LP.7N022<br>STN EN ISO 3127<br>STN EN ISO 13 263 | |
| 27 | | Cohesion between layers | Force measurement | PV 2034<br>TPJLR.52.058<br>STN 64 7030<br>D 511 485<br>D 411 015 | |

NOTE:
* - The basis for the national vehicle type approval according to Act No. 106/2018.

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