



**EA MLA Signatory**  
**Český institut pro akreditaci, o.p.s.**  
(Czech Accreditation Institute)  
**Hájkova 2747/22, Žižkov, 130 00 Praha 3**

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products and on changes and amendments to some Acts, as amended

# CERTIFICATE OF ACCREDITATION

No. 311/2025

**SYNPO, akciová společnost**  
**with registered office S. K. Neumanna 1316, 532 07 Pardubice - Zelené Předměstí**  
**Company Registration No. 46504711**

for the Testing Laboratory No. **1105.2**  
Analysis and Testing Services

Scope of accreditation:

Mechanical, thermomechanical, thermal and fire testing of polymeric materials including evaluation of paints and protective coatings to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

**ČSN EN ISO/IEC 17025:2018**

In its activities performed within the scope and for the period of validity of this Certificate, the abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited conformity assessment body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 60/2024 of 07/02/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **07/02/2029**

Prague: 26/06/2025



Signed in the Czech original:  
Jan Velíšek on 26/06/2025

**Jan Velíšek**  
Director of the Department  
of Testing and Calibration Laboratories  
Czech Accreditation Institute

This translation of the Czech original has been issued by: Eliška Frycová

**The Appendix is an integral part of  
Certificate of Accreditation No: 311/2025 of 26/06/2025**

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**SYNPO, akciová společnost**  
CAB number 1105.2, Analysis and Testing Services  
S. K. Neumann 1316, 532 07 Pardubice - Zelené Předměstí

**Testing laboratory locations:**

1. **Department for the Evaluation of Surface Coatings**      S. K. Neumann 1316, 532 07  
Pardubice – Zelené Předměstí
2. **Department for the Evaluation of Physical Properties of Materials**  
S. K. Neumann 1316, 532 07  
Pardubice – Zelené Předměstí

*The laboratory applies a flexible approach to the scope of accreditation.*

*The current list of activities carried out within the flexible scope is available on the laboratory's website <https://www.synpo.cz/zkusebnictvi-a-hodnoceni> in the form of the „List of activities within the flexible scope of accreditation“.*

*The laboratory provides opinions and interpretations of the test results.*

**1. Department for the Evaluation of Surface Coatings**

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name                           | Test procedure / method identification <sup>2</sup>                                                                                                                                                                                                     | Tested subject                                                                 | Degrees of freedom <sup>3</sup> |
|-----------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------|
| 1                           | Determination of the degree of degradation of coatings | APP 1<br>(ČSN EN ISO 4628-1;<br>ČSN EN ISO 4628-2;<br>ČSN EN ISO 4628-3;<br>ČSN EN ISO 4628-4;<br>ČSN EN ISO 4628-5;<br>ČSN EN ISO 4628-6;<br>ČSN EN ISO 4628-8;<br>ČSN EN ISO 4628-10;<br>ASTM D714;<br>ASTM D1654;<br>ASTM D610;<br>ČSN EN ISO 10289) | Paints and varnishes, metallic and other inorganic coatings                    | -                               |
| 2                           | Exposure to laboratory light - Xenon-arc lamps         | APP 2<br>(ČSN EN ISO 4892-1;<br>ČSN EN ISO 4892-2;<br>ČSN EN ISO 16474-1;<br>ČSN EN ISO 16474-2;<br>PV 3930;<br>PV 3929;<br>ASTM D2565)                                                                                                                 | Plastics, paints, coating materials, textile materials, non-metallic materials | D                               |
| 3*                          | Determination of coating thickness                     | ČSN EN ISO 2808,<br>procedure 1A, 4A, 4B,<br>6A, 7B.2, 7C;<br>ČSN EN ISO 2178                                                                                                                                                                           | Paints and varnishes, inorganic, metallic and other coatings                   | -                               |

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| Ordinal number <sup>1</sup> | Test procedure / method name                                                                                                        | Test procedure / method identification <sup>2</sup>                                                                                                                                                      | Tested subject                                                                                                                                | Degrees of freedom <sup>3</sup> |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 4                           | Surface roughness measurement (Ra, Rz, Ry, Rq)                                                                                      | ČSN EN ISO 4287:1999;<br>ČSN EN ISO 4288:1999;<br>ČSN EN ISO 21920-2;<br>ČSN EN ISO 21920-3                                                                                                              | Surfaces of plastics, coatings and metal materials                                                                                            | -                               |
| 5*                          | Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°                                                     | ČSN EN ISO 2813                                                                                                                                                                                          | Paints and varnishes, plastics                                                                                                                | -                               |
| 6                           | Colorimetric determination of colour differences                                                                                    | ASTM E1347                                                                                                                                                                                               | Paints and varnishes                                                                                                                          | D                               |
| 7                           | Determination of resistance to salt spray                                                                                           | ČSN EN ISO 9227;<br>ASTM B117                                                                                                                                                                            | Paints and varnishes, metallic and other inorganic coatings                                                                                   | -                               |
| 8                           | Determination of resistance to cyclic corrosion conditions - Wet (salt fog)/dry/humidity                                            | ČSN EN ISO 11997-1;<br>ČSN EN ISO 11997-3                                                                                                                                                                | Paints and varnishes, metallic and other inorganic coatings                                                                                   | -                               |
| 9                           | Determination of resistance of protective coating systems to cyclic corrosion conditions- Wet (salt fog)/dry/humidity/UV radiations | ČSN EN ISO 12 944-9;<br>ČSN EN ISO 12 944-6;<br>TKP-19.B.P9.4                                                                                                                                            | Protective coating systems of steel constructions, paints and varnishes, metallic and other inorganic coatings                                | -                               |
| 10                          | Cyclic corrosion test                                                                                                               | PV 1210;<br>PV 1209                                                                                                                                                                                      | Paints and varnishes, metallic and other inorganic coatings                                                                                   | D                               |
| 11                          | Determination of resistance to UV exposure                                                                                          | ČSN EN ISO 4892-1;<br>ČSN EN ISO 4892-3;<br>ČSN EN ISO 16474-1;<br>ČSN EN ISO 16474-3;<br>ASTM G154                                                                                                      | Paints and varnishes, coated surfaces, coating materials and coating systems for wood, masonry and concrete, plastics, non-metallic materials | D                               |
| 12                          | Determination of resistance to humid atmospheres containing sulfur dioxide                                                          | ČSN EN ISO 3231:1998;<br>ČSN ISO 6988:1994;<br>DIN 50018;<br>ČSN EN ISO 22479                                                                                                                            | Paints and varnishes, metallic and other inorganic coatings                                                                                   | -                               |
| 13                          | Determination of resistance in artificial atmospheres - humidity resistance                                                         | ČSN EN ISO 6270-1;<br>ČSN EN ISO 6270-2;<br>ČSN EN 13523-27                                                                                                                                              | Paints and varnishes, metallic and other inorganic coatings                                                                                   | -                               |
| 14                          | Determination of resistance by climatic tests - single-phase and multiphase tests                                                   | APP 14<br>(ČSN EN ISO 9227;<br>ČSN EN ISO 6270-2;<br>ČSN EN ISO 2812-1;<br>ČSN EN ISO 2812-2;<br>ČSN EN ISO 22479;<br>ČSN EN ISO 4892-2;<br>ČSN EN ISO 4892-3;<br>ČSN EN 60068-2-1;<br>ČSN EN 60068-2-2; | Paints, protective varnishes, plastics, coated surfaces, metallic and other inorganic materials, non-metallic materials                       | D                               |

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| Ordinal number <sup>1</sup> | Test procedure / method name                                       | Test procedure / method identification <sup>2</sup>                                                                      | Tested subject                                                                              | Degrees of freedom <sup>3</sup> |
|-----------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------|
|                             |                                                                    | ČSN EN 60068-2-14;<br>ČSN EN 60068-2-52;<br>ČSN EN 60068-2-78;<br>ČSN EN ISO 16474-2;<br>ČSN EN ISO 16474-3;<br>PV 1200) |                                                                                             |                                 |
| 15                          | Determination of stone-chip resistance of coatings                 | ČSN EN ISO 20567-1;<br>SAE J400, method C                                                                                | Paints and varnished                                                                        | -                               |
| 16*                         | Cross-cut test                                                     | ČSN EN ISO 2409;<br>ČSN EN ISO 16276-2;<br>ASTM D3359                                                                    | Paints and varnishes, metallic and other inorganic coatings, non-metallic materials         | -                               |
| 17                          | Adhesion test                                                      | ČSN EN ISO 2819, method 4.12                                                                                             | Paints and varnishes, metallic and other inorganic coatings, non-metallic materials         | -                               |
| 18*                         | Pull-off test for adhesion                                         | ČSN EN ISO 4624                                                                                                          | Paints and varnishes; coated surfaces, sealants, coating materials for masonry and concrete | -                               |
| 19                          | Determination of water-vapour transmission rate                    | ČSN EN ISO 7783                                                                                                          | Paints and coatings, coating materials and systems for exterior masonry and concrete        | -                               |
| 20                          | Determination of abrasion resistance - Taber abrader               | ČSN EN ISO 5470-1;<br>ČSN EN ISO 7784-2;<br>ASTM D4060                                                                   | Plastics, textiles and coated plastics, plastic coatings, films for concrete                | -                               |
| 21*                         | Determination of film hardness by pencil test                      | ČSN EN ISO 15184;<br>ASTM D3363                                                                                          | Paints and varnishes, metallic and other inorganic coatings                                 | -                               |
| 22                          | Determination of scratch resistance                                | ČSN EN ISO 1518-1                                                                                                        | Paints and varnishes                                                                        | -                               |
| 23                          | Bend test (cylindrical mandrel)                                    | ČSN EN ISO 1519                                                                                                          | Paints and varnishes                                                                        | -                               |
| 24                          | Pendulum damping test                                              | ČSN EN ISO 1522                                                                                                          | Paints and varnishes                                                                        | -                               |
| 25                          | Determination of resistance to testing liquids                     | APP 25<br>(ČSN EN ISO 2812-1;<br>ČSN EN ISO 2812-3;<br>ČSN EN ISO 2812-4, method A)                                      | Paints and varnishes                                                                        | D                               |
| 26                          | Determination of liquid water permeability                         | ČSN EN 1062-3;<br>ČSN EN 927-5                                                                                           | Coating materials and systems for masonry, concrete and wood                                | -                               |
| 27                          | Determination of wet-scrub resistance and cleanability of coatings | ČSN EN ISO 11998                                                                                                         | Paints and varnishes                                                                        | -                               |
| 28                          | Determination of resistance to liquids - Water immersion method    | ČSN EN ISO 2812-2                                                                                                        | Paints and varnishes                                                                        | -                               |

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- <sup>1</sup> asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises; the numerical index at the test ordinal number identifies the location carrying out the test (the identification of the locations is given on the first page of this document)
- <sup>2</sup> if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)
- <sup>3</sup> degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

**2. Department for the Evaluation of Physical Properties of Materials**

**Tests:**

| Ordinal number <sup>1</sup> | Test procedure / method name                                                    | Test procedure / method identification <sup>2</sup>                                                                                                                               | Tested subject                                | Degrees of freedom <sup>3</sup> |
|-----------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------|
| 1                           | Determination of tensile properties                                             | ČSN EN ISO 527-1, except chap. 10.4;<br>ČSN EN ISO 527-2;<br>ČSN EN ISO 527-3;<br>ČSN EN ISO 527-4;<br>ČSN EN ISO 527-5                                                           | Plastics, composites                          | A, B, D                         |
| 2                           | Determination of compressive properties                                         | ČSN EN ISO 604, except chap. 10.3                                                                                                                                                 | Plastics                                      | A, B, D                         |
| 3                           | Determination of flexural properties                                            | ČSN EN ISO 178;<br>ČSN EN ISO 11296-4 annex B;<br>ČSN EN ISO 14125 method A                                                                                                       | Plastics, fibre-reinforced plastic composites | A, B, D                         |
| 4                           | Determination of impact strength by CHARPY method, except notch impact strength | ČSN EN ISO 179-1                                                                                                                                                                  | Plastics                                      | -                               |
| 5                           | Determination of properties by means of DSC analysis                            | APP 5<br>(ČSN EN ISO 11357-1;<br>ČSN EN ISO 11357-2;<br>ČSN EN ISO 11357-3;<br>ČSN EN ISO 11357-5;<br>ČSN EN 12614;<br>ASTM E794;<br>ISO 19935-1;<br>ISO 19935-2;<br>ISO 19935-3) | Plastics                                      | A, D                            |
| 6                           | Determination of tensile lap-shear strength of rigid-to-rigid bonded assemblies | ČSN EN 1465;<br>ISO 4587                                                                                                                                                          | Adhesives                                     | A, B, D                         |

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| Ordinal number <sup>1</sup> | Test procedure / method name                                                   | Test procedure / method identification <sup>2</sup>       | Tested subject                                                                                                     | Degrees of freedom <sup>3</sup> |
|-----------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 7                           | Determination of the effects of immersion in liquid chemicals, including water | ČSN EN ISO 175, except chap. 5.5.1.3                      | Plastics                                                                                                           | A, B, D                         |
| 8                           | Determination of water absorption                                              | ČSN EN ISO 62                                             | Plastics                                                                                                           | A, B, D                         |
| 9                           | Determination of changes in mass by thermogravimetry                           | ČSN EN ISO 11358-1                                        | Polymers                                                                                                           | A                               |
| 10                          | Determination of indentation hardness by means of a durometer (SHORE hardness) | ČSN EN ISO 868                                            | Plastics, sealants, rubbers                                                                                        | -                               |
| 11                          | Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) | ČSN EN ISO 1133-1;<br>ČSN EN ISO 1133-2                   | Plastics                                                                                                           | -                               |
| 12                          | 50 W horizontal and vertical flame test                                        | ČSN EN 60695-11-10 ed. 2;<br>IEC 60695-11-10:2013         | Rigid and foam materials with a density greater than 250 kg/m <sup>3</sup>                                         | A, B, D                         |
| 13                          | Bond strength test by pull-off                                                 | ČSN 73 2577;<br>ČSN EN 1542;<br>ČSN EN ISO 4624           | Paints and coatings, surface treatments, sealants, polyurethane foams, coating materials for masonry and concrete. | A, B, D                         |
| 14                          | Test of thermal compatibility – frost resistance                               | ČSN 73 2579                                               | Coated surfaces, paints and coating systems for concrete and masonry, sealants.                                    | A, B, D                         |
| 15                          | Peel test for a flexible-bonded-to-rigid test specimen assembly                | ČSN EN 28510-1;<br>ČSN EN ISO 8510-2;<br>ČSN EN ISO 22631 | Adhesives                                                                                                          | A, B, D                         |

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**Explanations:**

|      |                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------|
| APP  | internal identification of the Testing Laboratory SYNPO, akciová společnost, Analysis and Testing Services |
| TKP  | Technical Quality Conditions issued by the Ministry of Transport of the Czech Republic                     |
| PV   | PrüfVorschrift, VolksWagen Test Specification                                                              |
| SAE  | American Technical Standard - Society of Automotive Engineers                                              |
| ASTM | American Society for Testing and Materials                                                                 |
| DIN  | Deutsche Industrie Norm                                                                                    |

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DSC                      Differential Scanning Calorimetry

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*"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself."*