EA MLA Signatory
Český institut pro akreditaci, o.p.s.
Olšanská 54/3, 130 00 Praha 3

issues

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

CERTIFICATE OF ACCREDITATION

No. 79/2023

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

to 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 Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the 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.: 429/2021 of 10. 8. 2021, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **12. 2. 2024**

Prague: 20. 2. 2023

Český institut pro akreditaci, o.p.s.
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Jan Velíšek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute
Public Service Company

The Appendix is an integral part of
Certificate of Accreditation No. 79/2023 of 20/02/2023

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

SYNPO, akciová společnost
Analysis and Testing Services
S. K. Neumanna 1316, 532 07 Pardubice – Zelené Předměstí

Testing laboratory locations:

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

The laboratory has a flexible scope of accreditation permitted as detailed in the Annex.
Updated list of activities provided within the flexible scope of accreditation is available at the laboratory from the Quality Manager.
The laboratory provides expert opinions and interprets test results.

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

Tests:

Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
1	Determination of the degree of degradation of coatings	APP 1 (ČSN EN ISO 4628-1, ČSN EN ISO 4628-2, ČSN EN ISO 4628-3, ČSN EN ISO 4628-4, ČSN EN ISO 4628-5, ČSN EN ISO 4628- 6, ČSN EN ISO 4628- 8, ČSN EN ISO 4628-10) ASTM D660, ASTM D714, ASTM D1654)	Paints and varnishes, metallic and other inorganic coatings
2	Rating of test specimens and manufactured articles subjected to corrosion tests	ČSN EN ISO 10289	Metallic and other inorganic coatings
3*	Determination of coating thickness	ČSN EN ISO 2808, procedure 1A, 4A, 4B, 6A, 7B.2, 7C ČSN EN ISO 2178	Paints and varnishes, inorganic, metallic and other coatings
4	Reserved		
5*	Determination of specular gloss of non-metallic paint films at 20 degrees, 60 degrees and 85 degrees	ČSN EN ISO 2813	Paints and varnishes, plastics
6*	Colorimetric determination of colour differences	ASTM E1347	Paints and varnishes
7	Determination of resistance to salt spray	ČSN EN ISO 9227 ASTM B117 ÖVE/ÖNORM EN 60068-2-11 ČSN EN 13523-8	Paints and varnishes, metallic and other inorganic coatings

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Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
8	Determination of resistance to cyclic corrosion conditions - Wet (salt fog)/dry/humidity	ČSN EN ISO 11997-1	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, ČSN EN ISO 12 944-6, TKP 19. B, annex P9.4:2018	Protective coating systems of steel constructions, paints and varnishes, metallic and other inorganic coatings
10	Cyclic corrosion test	PV 1210:2016 PV 1209:2016 PV 1200:2004 PV 2005:2000 method A	Paints and varnishes, metallic and other inorganic coatings
11	Determination of resistance to UV exposure	ČSN EN ISO 4892-1 ČSN EN ISO 4892-3 ČSN EN ISO 16474-1 ČSN EN ISO 16474-3 ČSN EN 927-6 ASTM G154	Paints and varnishes, coated surfaces, coating materials and coating systems for wood, masonry and concrete, plastics, non-metallic materials
12	Determination of resistance to humid atmospheres containing sulfur dioxide	ČSN EN ISO 3231 ČSN ISO 6988 DIN 50018	Paints and varnishes, metallic and other inorganic coatings
13	Determination of resistance in artificial atmospheres - humidity resistance	ČSN EN ISO 6270-1 ČSN EN ISO 6270-2 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 (ČSN EN ISO 9227, ČSN EN ISO 6270-2, ČSN EN ISO 3231, ČSN EN ISO 4892-3, ČSN EN ISO 2812-1, ČSN EN 60068-2-52, ČSN EN 60068-2-1, ČSN EN 60068-2-2, ČSN EN 60068-2-14, ČSN EN 60068-2-78)	Paints, protective varnishes, plastics, coated surfaces, metallic and other inorganic materials, non-metallic materials
15	Determination of stone-chip resistance of coatings	ČSN EN ISO 20567-1, SAE J400:2012, method C	Paints and varnished
16*	Cross-cut test	ČSN EN ISO 2409 ČSN EN ISO 16276-2 ASTM D3359	Paints and varnishes, metallic and other inorganic coatings, non-metallic materials
17	Adhesion test	ČSN EN ISO 2819 method 4.12	Metallic coatings
18*	Pull-off test for adhesion	ČSN EN ISO 4624	Paints and varnishes; coated surfaces, sealants, coating materials for masonry and concrete

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Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
19	Reserved		
20	Determination of abrasion resistance - Taber abrader	ČSN EN ISO 5470-1 ČSN EN ISO 7784-1 ČSN EN ISO 7784-2 ASTM D4060-14	Plastics, textiles and coated plastics, plastic coatings, films for concrete
21*	Determination of film hardness by pencil test	ČSN EN ISO 15184 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 liquids - Immersion in liquids other than water	ČSN EN ISO 2812-1	Paints and varnishes
26	Determination of resistance to liquids - Method using an absorbent medium	ČSN EN ISO 2812-3	Paints and varnishes
27	Determination of resistance to liquids - Water immersion method	ČSN EN ISO 2812-2	Paints and varnishes
28	Reserved		
29	Determination of wet-scrub resistance and cleanability of coatings	ČSN EN ISO 11998	Paints and varnishes
30	Determination of liquid water permeability	ČSN EN 1062-3 ČSN EN 927-5	Coating materials and systems for masonry, concrete and timber
31	Determination of water-vapour transmission rate	ČSN EN ISO 7783	Paints and varnishes, coated surfaces, coating systems for exterior masonry and concrete
32	Reserved		
33*	Surface roughness measurement (Ra, Rz, Ry, Rq)	ČSN EN ISO 4287(1999), ČSN EN ISO 4288(1999), ČSN EN ISO 21920-2, ČSN EN ISO 21920-3	Surfaces of plastics, coatings and metal materials
34	Reserved		
35	Exposure to laboratory light - Xenon-arc lamps	ČSN EN ISO 4892-1 ČSN EN ISO 4892-2 ČSN EN ISO 16474-1 ČSN EN ISO 16474-2	Plastics, paints and varnishes, coating materials, textile materials, non-metallic materials

[1] asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises

[2] 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 edition of the specified procedure is used (including any changes)

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Annex:
Flexible scope of accreditation

Ordinal numbers of tests
1-3, 5-18, 20-27, 29-31, 35

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

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

Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
1	Determination of tensile properties	ČSN EN ISO 527-1, except chap. 10.4 ČSN EN ISO 527-2 ČSN EN ISO 527-3 ČSN EN ISO 527-4 ČSN EN ISO 527-5	Plastics
2	Determination of compressive properties	ČSN EN ISO 604 except chap. 10.3	Plastics
3	Determination of flexural properties	ČSN EN ISO 178 ČSN EN ISO 11296-4 annex B ČSN EN ISO 14125 method A	Plastics, fibre-reinforced plastic composites
4	Determination of impact strength by CHARPY method	ČSN EN ISO 179-1 except notch impact strength	Plastics
5	Determination of properties by means of DSC analysis. - determination of glass transition temperature, - determination of temperatures and enthalpies of melting and crystallization, - determination of enthalpies of reaction, temperatures and times	ČSN EN ISO 11357-1 ČSN EN ISO 11357-2 ČSN EN 12614 ČSN EN ISO 11357-3 ASTM E794 ČSN EN ISO 11357-5	Plastics
6	Determination of tensile lap-shear strength of rigid-to-rigid bonded assemblies	ČSN EN 1465, ISO 4587	Adhesives
7	Determination of the effects of immersion in liquid chemicals, including water	ČSN EN ISO 175 except chap. 5.5.1.3	Plastics
8	Determination of water absorption	ČSN EN ISO 62	Plastics
9	Determination of changes in mass by thermogravimetry	ČSN EN ISO 11358-1	Polymers
10	Determination of indentation hardness by means of a durometer (SHORE hardness)	ČSN EN ISO 868	Plastics
11	Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR)	ČSN EN ISO 1133-1 ČSN EN ISO 1133- 2	Plastics
12	50 W horizontal and vertical flame test	ČSN EN 60695-11-10 ed. 2	Materials used in electrical equipment
13	Bond strength test by pull-off	ČSN 73 2577, ČSN EN 1542	Paints and varnishes; coated surfaces, sealants, coating materials for masonry and concrete

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Ordinal number[1]	Test procedure/method name	Test procedure/method identification[2]	Tested object
14	Test of thermal compatibility - frost resistance	ČSN 73 2579	Coated surfaces; paints and coating systems for concrete and masonry
15	Peel test for a flexible-bonded-to-rigid test specimen assembly	ČSN EN 28510-1, ČSN EN ISO 8510-2, ŠN EN ISO 22631	Adhesives

[1] asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises

[2] 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 edition of the specified procedure is used (including any changes)

Annex:
Flexible scope of accreditation

Ordinal numbers of tests
1-15

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

Explanations:

APP	Accredited operating procedure, 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	Americká technická norma
ÖVE/ÖNORM	Austrian Association for Electrical Engineering / Austrian Standard
ASTM	American Society for Testing and Materials
DIN	Deutsche Industrie Norm
DSC	Differential Scanning Calorimetry