



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory

PTC ÜRÜN TEST VE BELGELENDİRME SANAYİ TİCARET LİMİTED ŞİRKETİ

Central Address: ÖRNEK MAH. UDİ HASANBEY SK. REİS PLAZA NO:31 A ATAŞEHİR İstanbul / Türkiye

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by TURKAK.

Accreditation Number : AB-1374-T

Accreditation Date : 21.09.2018

Revision Date / Number : 07.04.2023 / 06

This certificate shall remain in force until **19.09.2026**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.

Gülden Banu Müderrisoğlu
Secretary General



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|  TÜRKAK  Test TS EN ISO/IEC 17025 AB-1374-T | PTC ÜRÜN TEST VE BELGELENDİRME SANAYİ TİCARET LİMİTED ŞİRKETİ Accreditation Nr: AB-1374-T Revision Nr: 06 Date: 07.04.2023 | |
| | Testing Laboratory | |
| Address : ÖRNEK MAH. UDİ HASANBEY SK. REİS PLAZA NO:31 A ATAŞEHİR İstanbul / Türkiye | Phone : +90 216 225 0341 Fax : - Email : kalite@ptctesting.com Website : www.ptctesting.com | |


Electrical, Electronic and IT Products and Devices

| Tested Materials / Products | Name of Test | Testing Method (National, International Standards, in-house Methods) |
|----------------------------------|--|---|
| Electrical equipment of machines | Safety of machinery - Electrical equipment of machines - Part 1: General requirements | TS EN 60204-1+A1 IEC 60204 SASO-GSO-IEC-60204-1 |
| Luminaires | Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires | TS 8698 EN 60598-2-1 IEC 60598-2-1 SASO-GSO-IEC-60598-2-1 Excluded clauses in TS EN 60598-1 are not covered. |
| Luminaires | Luminaires - Part 1: General requirements and tests Except Clauses: Rough service luminaires - Vibration requirements, Photobiological Hazards | TS EN 60598-1 EN 60598-1 IEC 60598-1 SASO-IEC-60598-1 Except Clauses: Clause 4.20, Clause 4.24 |
| Luminaires | Luminaires - Part 2-2: Particular requirements - Recessed luminaires | TS EN 60598-2-2 IEC 60598-2-2 SASO-GSO-IEC-60598-2-2 Excluded clauses in TS EN 60598-1 are not covered. |
| Luminaires | Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting | TS EN 60598-2-3 IEC 60598-2-3 SASO-GSO-IEC-60598-2-3 Excluded clauses in TS EN 60598-1 are not covered. |
| Luminaires | Luminaires - Part 2: Particular requirements - Section 4: Portable General Purpose Luminaires | TS EN 60598-2-4 IEC 60598-2-4 SASO-GSO-IEC-60598-2-4 Excluded clauses in TS EN 60598-1 are not covered. |
| Luminaires | Luminaires - Part 2-5: Particular requirements – Floodlights | TS EN 60598-2-5 IEC 60598-2-5 SASO-GSO-IEC-60598-2-5 Excluded clauses in TS EN 60598-1 are not covered. |
| Luminaires | Luminaires -- Part 2-8: Particular requirements - Handlamps | TS EN 60598-2-8 EN 60598-2-8 IEC 60598-2-8 (Except Clauses) Excluded clauses in TS EN 60598-1 are not covered. |
| Luminaires | Luminaires - Part 2-22: Particular requirements - Luminaires for emergency lighting | TS EN 60598-2-22 IEC 60598-2-22 EN 60598-2-22 (Except Clauses) Excluded clauses in TS EN 60598-1 are not covered. |




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| Luminaires | Luminaires - Part 2-20: Particular requirements – Lighting chains | TS EN 60598-2-20 EN 60598-2-20 IEC 60598-2-20 Excluded clauses in TS EN 60598-1 are not covered. |
| Insulating Materials | Method for the determination of the proof and the comparative tracking indices of solid insulating materials | TS EN 60112 IEC 60112 |
| LED modules | LED modules for general lighting - Safety specifications | TS EN 62031 IEC 62031 SASO-IEC-62031 (Except Clauses) Clause 6.2 g, Clause 21 |
| enclosures | Degrees of protection provided by enclosures (IP code) | TS 3033 EN 60529 EN 60529/A1 IEC 60529 (Except : IPX9) |
| Lamp controlgear | Lamp controlgear - Part 1: General and safety requirements | TS EN 61347-1 IEC 61347-1 (Except Clauses) Annex E, Annex F, Annex G, Annex I |
| Final Product | Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test method | TS EN 60695-10-2 IEC 60695-10-2 SASO-IEC-60695-10-2 |
| Lamp controlgear | Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules | TS EN 61347-2-13 EN 61347-2-13 IEC 61347-2-13 SASO-GSO-IEC-61347-2-13 (Except Clauses) Annex I, Annex J Excluded clauses in TS EN 61347-1 are not covered. |
| Final Product | Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products (GWEPT) | TS EN 60695-2-11 IEC 60695-2-11 SASO-IEC-60695-2-11 |
| Final Product | Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance | TS EN 60695-11-5 IEC 60695-11-5 SASO-IEC-60695-11-5 |
| Luminaires | Luminaire performance - Part 1: General requirements | IEC 62722-1 SASO-IEC-PAS-62722-1 |
| Electrotechnical Items | Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests | TS EN 60068-2-75 IEC 60068-2-75 |
| Lamps | Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements s | TS EN 62612 |
| Electrotechnical products | Environmental testing -- Part 1: General and guidance | TS EN 60068-1 EN 60068-1 -10 °C ≤ , ≤ +150 °C |



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| Electrotechnical products | Environmental testing - Part 2-1: Tests - Tests A: Cold | TS EN 60068-2-1 EN 60068-2-1 Test Range: ≥ -10 °C |
| Lamps | Energy Efficiency Functionality And Labelling Requirements For Lighting Products - Part 1 Tests: Lamp efficacy Rated lifetime, lamp Lifetime Lamp survival factor Lumen maintenance, lamp lumen maintenance factor Number of switching cycles Starting time Lamp warm-up time Premature failure rate Lamp power factor Chromaticity coordinates CCT CRI (Color Randerin Index) Lamp dimensions | SASO 2870 |
| Electrotechnical products | Environmental testing - Part 2-2: Tests - Test B: Dry heat | TS EN 60068-2-2 EN 60068-2-2 Test Range: ≤ 150 °C |
| Light and lighting | Energy Efficiency, Functionality And Labelling Requirements For Lighting Products Part 2 Tests: Lumen maintenance Lamps survival factor Power Luminous flux Displacement factor CRI, CCT Beam angle (CIE 18.2 Basic of Physical Photometry) Lumen maintenance Endurance | SASO 2902 |
| enclosures | Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) | TS EN 62262 IEC 62262 EN 62262 |
| Luminaires | Luminaires - Part 2-13: Particular requirements - Ground recessed luminaires (IEC 60598-2-13:2006) / Note: Endorsement notice | TS EN 60598-2-13 EN 60598-2-13 IEC 60598-2-13 Excluded clauses in TS EN 60598-1 are not covered. |
| Household and similar electrical appliances | Household and similar electrical appliances – Safety - Part 1: General requirements | TS EN 60335-1 IEC 60335-1 SASO-GSO-IEC-60335-1 (Except Clauses) Clause 19.11.4, Clause 22.32, Clause 22.42, Clause 22.48, Annex C, Annex G, Annex H, Annex J, Annex R |



Accreditation Scope

|  <p style="text-align: center;">PTC ÜRÜN TEST VE BELGELENDİRME SANAYİ TİCARET LİMİTED ŞİRKETİ</p> <p style="text-align: center;">Accreditation Nr: AB-1374-T Revision Nr: 06 Date: 07.04.2023</p> | | |
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| Luminaires | Luminaires - Part 2-17: Particular requirements - Luminaires for stage lighting, television and film studios (outdoor and indoor) | TS EN 60598-2-17 EN 60598-2-17 IEC 60598-2-17 Excluded clauses in TS EN 60598-1 are not covered. |
| Household and similar electrical appliances | Household and similar electrical appliances – Safety – Part 2.21: Particular requirements for appliances for skin or hair care | TS EN 60335-2-23 EN 60335-2-23 IEC-60335-2-23 SASO-GSO-IEC-60335-2-23 Excluded clauses in TS EN 60335-1 are not covered |
| Self-ballasted LED-lamps for general lighting services by voltage > 50 V | Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications | TS EN 62560 EN 62560 IEC 62560 Excluded clauses: Clause 6, Clause 13, Clause 16 |
| Household and similar electrical appliances | Household and similar electrical appliances- Safety -Part 2 – 41: Particular requirements for pumps | TS EN 60335-2-41 IEC 60335-2-41 SASO-GSO-IEC-60335-2-41 Excluded clauses in TS EN 60335-1 are not covered. |
| Lamp controlgear | Lamp controlgear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires | TS EN 61347-2-11 EN 61347-2-11 IEC 61347-2-11 (Except Clauses) Excluded clauses in TS EN 61347-1 are not covered. |
| Household and similar electrical appliances | Household and similar electrical appliances – Safety Part 2-15: Particular requirements for appliances for heating liquids | TS EN 60335-2-15 EN 60335-2-15 IEC-60335-2-15 SASO-IEC-60335-2-15 Excluded clauses in TS EN 60335-1 are not covered. |
| Lighting Fixtures | In situ Temperature Measurement Testing (ISTMT) | ANSI/UL 1598 |
| Safety of Household and Similar Electrical Appliances | Safety of Household and Similar Electrical Appliances Part 2: Particular Requirements for Toasters Grills Roasters and Similar Appliances | TS 2005 EN 60335-2-9 EN 60335-2-9 IEC 60335-2-9 SASO-IEC-60335-2-9 Excluded clauses in TS EN 60335-1 are not covered. |
| Household and similar electrical appliance | Household and similar electrical appliance- Safety –Path 2-80: Particular requirements for fans | TS EN 60335-2-80 EN 60335-2-80 IEC 60335-2-80 |
| Household and similar electrical appliances | Household and similar electrical appliances – Safety – Part 2-30: Particular requirements for room heaters | TS EN 60335-2-30 IEC 60335-2-30 EN 60335-2-30 SASO-GSO-IEC-60335-2-30 Excluded clauses in TS EN 60335-1 are not covered. |



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| Light and lighting | Light and lighting - Measurement and presentation of photometric data of lamps and luminaires - Part 2: Presentation of data for indoor and outdoor work places | TS EN 13032-2 EN 13032-2 |
| Light and lighting | Light and lighting - Measurement and presentation of photometric data of lamps and luminaires - Part 4: LED lamps, modules and luminaires | TS EN 13032-4 EN 13032-4 |
| Solid-State Lighting Products | Approved Method: Optical And Electrical Measurements Of Solid-State Lighting Products | IESNA LM 79-19 |
| Solid-State Lighting Products | IES Approved Method: Measuring Luminous Flux And Color Maintenance Of LED Packages, Arrays And Modules | ANSI IES LM-80-21 |
| Solid-State Lighting Products | Projecting Long Term Lumen Maintenance of LED Light Sources | ANSI IES TM-21-21 |
| Solid-State Lighting Products | Projecting Long-Term Luminous Flux Maintenance of LED Lamps And Luminaires | IES TM-28-20 |
| Solid-State Lighting Products | Characterization of Optical and Electrical Properties of Solid-State Lighting Products as a Function of Temperature | ANSI/IES LM-82-20 |
| Luminaires | Luminaire performance - Part 2-1: Particular requirements for LED luminaires | IEC 62722-2-1 SASO-IEC-PAS-62722-2-1 |
| LED Modules | LED modules for general lighting - Performance requirements | IEC 62717 SASO-IEC-PAS-62717 |
| Light and lighting | Light and lighting - Measurement and presentation of photometric data of lamps and luminaires - Part 1: Measurement and file format | TS EN 13032-1 EN 13032-1 |
| Solid-State Lighting Products | Measuring Luminous Flux And Color Maintenance of LED Lamps, Light Engines, And Luminaires | ANSI IES LM-84-20 |
| Plastic Materials | Test for Flammability of Plastic Materials for Parts in Devices and Appliances | UL 94 |

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| Mechanical Products | | |
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| Tested Materials / Products | Name of Test | Testing Method (National, International Standards, In-house Methods) |
| Plumbing Products Sanitary Watch Fixtures | Dimensional Requirements | TS EN 817 (Clause 6) TS EN 200 (Clause 6) TS EN 1112 (Clause 8) |

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| Sanitary Appliances | General Requirements and Methods of Test for Plumbing Fixture Fittings Tests: Clause 5.3.1 Clause 5.3.2 Clause 5.3.4.2 Clause 5.3.4.3 Clause 5.3.5 Clause 5.3.6 Clause 5.3.7 Clause 5.4 Clause 5.5 Clause 5.6 Clause 5.7.1 Clause 5.7.2 Clause 5.8 Clause 5.12.2 Clause 6 | SASO 2655 |
| Plumbing Products Sanitary Watch Fixtures | Flow Capacity (Hydraulic Features) | TS EN 817 (Clause 10; Except Clause 10.7) TS EN 200 (Clause 10) TS EN 1112 (Clause 11) |
| Plumbing Products Sanitary Watch Fixtures | Burst strength | TS EN 817 (Clause 9) TS EN 200 (Clause 9) |
| Plumbing Products Sanitary Watch Fixtures | Impermeability Tests | TS EN 1112 (Clause 9) TS EN 817 (Clause 8) TSS EN 200 (Clause 8) |
| Plumbing Products Sanitary Watch Fixtures | Mechanical Properties | TS EN 1112 (Clause 10; Except Clause 10.3) TS EN 200 (Clause 11; Except Clause 12) TS EN 817 (Clause 11; Except Clause 12) |

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