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 : 13.09.2024 / 08

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

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

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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: 08 Date: 13.09.2024

Testing Laboratory

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Phone : +90 216 225 0341
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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.

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Accreditation Scope

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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.
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

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Electrotechnical products	Environmental testing -- Part 1: General and guidance	TS EN 60068-1 EN 60068-1 -10 °C ≤ , ≤ +150 °C
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 LightingProducts - 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 İndex) 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.

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Accreditation Scope

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: 08 Date: 13.09.2024**
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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
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.
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.

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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.
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
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

Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
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)

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