

DENEY RAPORU
TEST REPORT

AB-1374-T

2023-PTC-
2609-1

03-24

Müşteri Adı / Adresi:
Customer name / address

TULED ELEKTRONİK SANAYİ TİCARET ANONİM ŞİRKETİ
Cırgalan Mah. 4140. Cad. No:2 Kocasinan / KAYSERİ

İstek Numarası
Order No.

2023-PTC-2609

Numunenin adı ve tarifi
Name and identity of test item

LED AMPÜL / LED BULB

Numunenin kabul tarihi
The date of receipt of test item

14.09.2023

Açıklamalar
Remarks

Ürün ilgili testlerden geçmiştir, lütfen raporu inceleyiniz.
The product passes related tests, see report below.

Deneyin yapıldığı tarih
Date of Test

16.10.2023-23.10.2023

Raporun Sayfa Sayısı
Number of pages of the Report

19

Deney laboratuvarı olarak faaliyet gösteren PTC Ürün Test ve Belgelendirme San. Tic. Ltd. Şti., TÜRKAK'tan AB-1374-T akreditasyon dosya numarası ile TS EN ISO IEC 17025:2017 standardına göre akredite edilmiştir.

PTC Ürün Test ve Belgelendirme San. Tic. Ltd. Şti. accredited by TÜRKAK under registration number AB-1374-T accreditation file no for TS EN ISO IEC 17025:2017 as test laboratory"

Türk Akreditasyon Kurumu(TÜRKAK) deney raporlarının tanınırlığı konusunda Avrupa Akreditasyon Birliği(EA) ile Çok Taraflı Anlaşma ve Uluslararası Laboratuvar Akreditasyon Birliği(ILAC) ile karşılıklı tanıma anlaşması imzalamıştır.

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports

Deney ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metotları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Mühür
Seal

Tarih
Date

Deneyi Yapan Personel
Person in Performing the Test

Deney Sorumlusu
Person in Charge of Test

Laboratuvar Teknik
Yöneticisi
Laboratory Technical
Manager

11.03.2024




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TS EN 62560/A11 :2019

Madde Clause	İstenen Deneyle Test Requirements	Açıklamalar Remarks	Sonuç Verdict
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4	GENERAL REQUIREMENTS		P
4.1	The lamp shall be so designed and constructed that in normal use cause no danger to the user.		P
4.2	Self-ballasted LED-Lamp are non-repairable.		P

5	MARKING		P
5.1	Mandatory marking		P
	- mark of origin		P
	- rated supply voltage (V).....: 110-240		P
	- rated wattage (W): 12		P
	- rated frequency (Hz): 50-60		P
5.2	Addition marking		P
	- rated current (A).....:		P
	- weight significantly higher		N/A
	- special conditions or restrictions		N/A
	Not suitable for dimming; symbol  used		N/A
	- not suitable for water contact		N/A
5.3	Marking durable and legible		P
	rubbing 15 s water, 15 s petroleum; marking legible	15s	P

6	INTERCHANGEABILITY		O/S
6.1	Cap interchangeability in accordance with IEC 60061-1		O/S
	Gauge in accordance with IEC 60061-3		O/S
6.2	Bending moment and mass imparted by the lamp at the lampholder		O/S
	Bending moment imparted by the lamp at the lampholder (Nm)		O/S

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Madde <i>Clause</i>	İstenen Deneyle <i>Test Requirements</i>	Açıklamalar <i>Remarks</i>	Sonuç <i>Verdict</i>
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	Mass not exceeding value table 2 or as specified in IEC 60061-1 (kg)..... :		O/S
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7	PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS		P
	Internal, basic insulated or live metal parts not accessible		P
	Tested with a test finger with a force of 10 N	10N	P
	Compliance checked with appropriate gauges		P

8	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
8.2	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (MΩ):999,9		P
	≥ 4 MΩ for double or reinforced insulation :	999,9	P
8.3	Immediately after clause 8.2 electric strength test for 1 min		P
	Double or reinforced insulation, 4U + 2000 V	2960	P
	No flashover or breakdown		P

9	MECHANICAL STRENGTH		P
9.2.1	Torsion resistance of unused lamps		P
	B15d or E14 Cap 1,15 Nm		N/A
	B22d, E26, E26d or E27 Cap 3,0 Nm	E27 , 3Nm	P
	E11 or E12 Cap 0,8 Nm		N/A
	E17 Cap 1,5 Nm		N/A
	E39 or E40 Cap 5,0 Nm		N/A
	GX53 Cap 3,0 Nm		N/A
9.3	Compliance criteria		P
	Clause 8 shall comply after the mechanical strength test.	2960V	P

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Madde <i>Clause</i>	İstenen Deneyle <i>Test Requirements</i>	Açıklamalar <i>Remarks</i>	Sonuç <i>Verdict</i>
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9.4	Axial strength of Edison caps		P
	After full insertion into the gauge an axial force of Table 4 is applied to the central contact (N)..... :	120N	P
	The insulation around the central contact shall remain intact		P

10	CAP TEMPERATURE RISE		P
	The cap temperature rise Δt_s of the lamp shall not exceed 120 K.	38,2 K	P

11	RESISTANCE TO HEAT		P
	Parts of insulating material providing protection against electric shock, retaining live parts in position, ball-pressure test:	(see appended table) 80°C	P

12	RESISTANCE TO FLAME AND IGNITION		P
	External parts of insulating material preventing electric shock glow-wire test 650 °C	(see appended table) 650°C	P

13	FAULT CONDITIONS		O/S
13.2	Fault conditions: where diagram indicates fault condition impairs safety, electronic components have been short-circuited or disconnected	(see appended table)	O/S
13.3	When operated under fault conditions the lamp		O/S
	- does not emit flames or molten material		O/S
	- does not produce flammable gases or smoke		O/S
	- live parts not accessible		O/S
	After the tests the insulation resistance with d.c. 1000 V complies with requirements of Cl. 8.1		O/S

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14 (16)	CREEPAGE DISTANCES AND CLEARANCES		P
	Creepage distances and clearances according to IEC 61347-1	(see appended table)	N/A
	Conductive accessible parts according to IEC 60598-1	(see appended table)	P

15	ABNORMAL OPERATION		N/A
	Non-dimmable self-ballasted lamps are tested on a dimmer or an electronic switch according the test circuit shown in Figure 8		N/A
	Operate the lamp for 8 h at most onerous dimming level		N/A
	When operated under abnormal operation the lamp		N/A
	- does not catch fire		N/A
	- does not produce flammable gases		N/A
	- live parts not accessible		N/A

16	TEST CONDITIONS FOR DIMMABLE LAMPS		O/S
	Test are carried out at maximum power setting for Clause 10 and Clause 17		O/S

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Madde Clause	İstenen Deneyle Test Requirements	Açıklamalar Remarks	Sonuç Verdict
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11	TABLE: Ball Pressure Test of Thermoplastics			P
Allowed impression diameter (mm)		2		—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)	
Plastic Enclosure	-	80	1,1	
Supplementary information:				

12	TABLE: Resistance to heat and fire - Glow wire tests			P
Object/ Part No./ Material	Manufacturer/ trademark	Glow wire test (GWT); (°C)		Verdict
		650		
		te	ti	
Plastic Enclosure	-	30	0	P
Supplementary information:				

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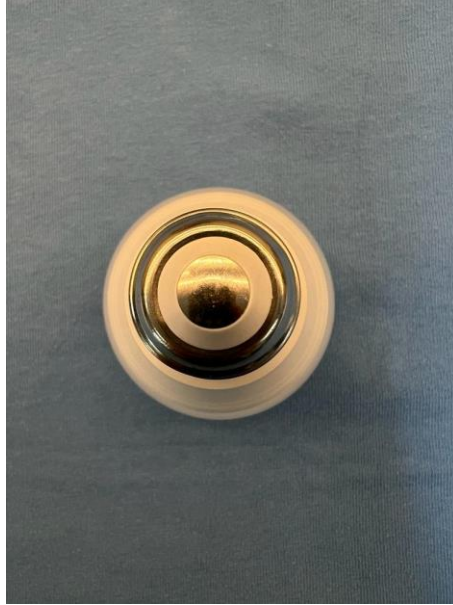
13	TABLE: tests of fault conditions			O/S
Part	Simulated fault	Result		Hazard
				YES/NO
				YES/NO
				YES/NO
				YES/NO
				YES/NO

14	TABLE: Clearance And Creepage Distance Measurements						P
clearance cl and creepage distance dcr at/of:	Up (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)	
Basic Insulation	338	240	1,1	5,5	2,41	5,5	
Supplementary information:							

EK DOSYA 2 / ATTACHMENT 2

Görsel Dökümanlar / Photo Documentation





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PTC Ürün Test ve Belgelendirme San. Tic. Ltd. Şti.
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