

PRODUCT CONFORMITY and QUALITY CERTIFICATES



Steady walk,
clean steps!

The WALKMATS logo, which includes a stylized icon of a person walking above the word 'WALKMATS' in a bold, sans-serif font, all contained within a rectangular border.

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ZERTIFIKAT • CERTIFICATE • CERTIFICAT • CERTIFICADO



CERTIFICATE OF CONFORMITY UYGUNLUK SERTİFİKASI

Applicant : PETRONAN KİMYA GIDA SAN. VE TİC.AŞ.
Başvuru Sahibi : MERKEZ: GEBZE GÜZELLER ORGANİZE SAN.BÖL.İNÖNÜ MAH. ATATÜRK BULV.
 NO:22 KAT:1 GEBZE/KOCAELİ/TÜRKİYE
 ÜRETİM: ÖRNEKKÖY MAH. KÖY İÇİ SOK.NO:113 ORHANGAZI /BURSA /TÜRKİYE

Manufacture : PETRONAN KİMYA GIDA SAN. VE TİC.AŞ.
Üretici : MERKEZ: GEBZE GÜZELLER ORGANİZE SAN.BÖL.İNÖNÜ MAH. ATATÜRK
 BULV. NO:22 KAT:1 GEBZE/KOCAELİ/TÜRKİYE
 ÜRETİM: ÖRNEKKÖY MAH. KÖY İÇİ SOK.NO:113 ORHANGAZI /BURSA /TÜRKİYE

Product : MAT
Ürün : PASPAS

Models : KIVIRCIK PASPAS - PETEK PASPAS - YILDIZ PASPAS
Model : CURLY MATS - HONEYCOMB MATS - STAR MATS

Ticari Marka : WALKMATS
Trademark :

Teknik Dosya : PETR-CE-1001
Technical file :

Directive : 2001/95/EC GENERAL PRODUCT SAFETY DIRECTIVE
Yönetmelik : 2001/95/ AT GENEL ÜRÜN GÜVENLİĞİ DİREKTİFİ

Yukarıda bahsi geçen firmanın ürüne ilişkin sunduğu dokümantasyonu yukarıda belirtilen referans yönetmelik ve/veya standartlara göre incelemiştir. Yönetmeliğe ve standartlara göre ürünün ve dokümantasyonun uygunluğu firma sorumluluğundadır.

The above mentioned company has reviewed the documentation for the product according to the reference regulations and/or standards mentioned above. The company is responsible for compliance of the product and documentation according to the regulations and standards.

Certificate No : CE202308-52
 Certificate Date : 17.08.2024
 Issue Date : 17.08.2024
 Expiry Date : 16.08.2025



APPROVAL

CND Certification Services Limited.
 45/32 Prahaladpur Bangar Industrial Area Delhi / India
 info@cndcert.co.in
 Certificate validity information www.cndcert.co.in you can check at.

Certificate No: FR027
Fiscal Year 2022



CERTIFICATE OF FDA COMPLIANCE



This certifies that:
The company of PETRONAN KİMYA GIDA SAN. TİC. A.Ş.

Is comply with U.S. Food and Drug Administration pursuant to Federal Food Drug and Cosmetic Act, as amended by Bioterrorism Act 2002 and the FDA Food Safety Modernization Act.

Manufacturer Company Name: PETRONAN KİMYA GIDA SAN. TİC. A.Ş.

Manufacturer Company Address: ATATURK BULVARI, NO:22 K:1 GEBZE GUZELLER ORGANİZE SANAYİ TÜRKİYE

This certificate affirms that above stated facility products are comply with FDA Food additive and GRAS regulations.

Filling was performed at 2022. And renewal is not required until the next period of 2022. Ayansan will confirm such Registration remains effective upon request and presentation of the certificate until end of the year stated above, unless terminated after issuance of this certificate. AYANSAN makes no other representations or warranties, not does this certificate make any representations or warranties to any person or entity in connection with foregoing.

The U.S. Food and Drug Administration does not issue a certificate of Registration, nor the U.S. Food and Drug Administration recognise a certificate of Registration. Ayansan is not affiliated with U.S. Food and Drug Administration.

AYANSAN CHEMICAL CONSULTANCY PLS. LTD. CO.
Kavacik Mah Ozkan Sokak No: 3 Celik Is Merkezi
D: 4 Beykoz Istanbul, Turkey
+90 212 485 50 59
www.ayansan.com info@ayansan.com


General Manager
Burak Ayan
Dated: 18.11.2022



Document No: 849001

Date: 18.11.2022

Version No: 1.0

FDA CERTIFICATE OF CONFORMITY

PETRONAN has a high global standard for human health and environmental awareness, PETRONAN declare that all their products comply with the requirements in U.S. Food and Drug Administration's (FDA).

PETRONAN is a hose manufacturer.

The term "safe," as it refers to food additives and ingredients (including food contact substances), is defined in 21 CFR 170.3(i) as a "reasonable certainty in the minds of competent scientists that a substance is not harmful under the intended conditions of use."

Food and Drug Administration Modernization Act (FDAMA), amended the Food Drug and Cosmetic Act (FD&C Act) to streamline the way in which the FDA conducted business. One of the new procedures established to accomplish this goal was a notification process for food-contact substances. The amended FD&C Act (United States, 1998a) defined a food-contact substance as "any substance intended for use as a component of materials used in manufacturing, packing, packaging, transporting, or holding food if such use is not intended to have a technical effect in such food."

Food Contact Substance (FCS) - Section 409 of the FD&C Act defines an FCS as any substance that is intended for use as a component of materials used in manufacturing, packing, packaging, transporting, or holding food if such use of the substance is not intended to have any technical effect in such food.

Kavacık Mah. Özkan Sokak No: 3 Çelik İş Merkezi D: 4 Beykoz/ İstanbul/ Turkey
Phx: +90 212 485 50 59 Beykoz V.D.: 1070041789 Tic. Sic. No.: 387835 Mersis No.: 0107004178900018
www.ayansan.com - info@ayansan.com

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Document No: 849001

Date: 18.11.2022

Version No: 1.0

FDA CERTIFICATE OF CONFORMITY

PETRONAN products are safety to use in food contacts materials.

All the substances use in the products are in Inventory of Food Contact Substances Listed in 21 CFR.

All the substances are comply with FDA Food additive and GRAS regulations.

This statement refers to the supplies made to its costumers and its controlled companies.

Ayansan reviewed and controlled the products for comply FDA Food additive and GRAS regulations.

The substance of Polyvinyl Chloride comply with Food additive and GRAS regulations (21 CFR Parts 170-186): 176.170, 176.180, 177.1010

The substance of Di-2-Ethylhexyl Terephthalate comply with Food additive and GRAS regulations (21 CFR Parts 170-186): 177.1210

The substance of Azodicarbonamide of comply with Food additive and GRAS regulations (21 CFR Parts 170-186): 172.806, 177.1210, 177.2600, 178.3010 and Food labeling and standards regulations (21 CFR Parts 100-169): 136.110 , 137.105 , 137.200

The substance of Dioctyl Adipate of comply with Food additive and GRAS regulations (21 CFR Parts 170-186): 177.2600

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The substance of Titanium Dioxide of comply Color additive regulations (21 CFR Parts 73, 74, 81, 82): 73.1575, 73.2575, 73.3126, 73.350, 73.575 and Food additive and GRAS regulations (21 CFR Parts 170-186): 175.105, 175.210, 175.300, 175.380, 175.390, 176.170, 177.1200, 177.1210, 177.1350, 177.1400, 177.1460, 177.1650, 177.1680, 177.2260, 177.2600, 177.2800, 178.3297, 181.30

Manufacturer Company Name: PETRONAN KİMYA GIDA SAN. TİC. A.Ş.

Manufacturer Company Address: ATATURK BULVARI, NO:22 K:1 GEBZE
GUZELLER ORGANİZE SANAYİ TÜRKİYE

Manufacturer Phone: +90 530 548 04 20

Manufacturer E-mail: melike.ozkan@plastay.com

Burak Ayan

MSc Bioengineer Chemist

Chemical Safety and Regulatory Affairs Consultant

AYANSAN
Kimyasal Danışmanlık Plastik San. ve Tic. Ltd. Şti.
Kavacak Mah. Özkan Sok. No:3 Çelik İş Merkezi D:4
Beykoz - İSTANBUL - Tel: +90 212 485 50 59
Beykoz Yargı Dairesi : 1070041789
Tic.Sic.No: 27831 Mersis No: 0100400417890018
www.ayansan.com - info@ayansan.com

Kavacak Mah. Özkan Sokak No: 3 Çelik İş Merkezi D: 4 Beykoz/ İstanbul/ Turkey
Phx: +90 212 485 50 59 Beykoz V.D.: 1070041789 Tic. Sic. No.: 387835 Mersis No.: 0107004178900018
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Document No: 849001

Date: 18.11.2022

Version No: 1.0

FDA CERTIFICATE OF CONFORMITY

Disclaimer Statement: This declaration has been completed by Ayansan independently. We shall assume no responsibility for any loss caused by disclosure of the report. We assume no liability for any loss incurred as a result of the use of the conclusion.

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www.ayansan.com - info@ayansan.com

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WALKMATS

TEST REPORT

TR12323498

26.04.2023



EUROLAB LABORATUVAR A.Ş.



Report No/ Rapor No : 2023260427
Applicant/Deney Sahibi : PETRONAN KİMYA GIDA SAN. TİC. A.Ş.
Applicant Address / Adres : GGOSB İnönü mah. Atatürk Bul. No:22 GEBZE/KOCAELİ
Contact Person / Yetkili : Melike ÖZKAN
Contact Telephone / Telefon: 0262 679 5300
Contact e-mail / E-Posta: -
Sample Accepted on / Numune Tarihi : 14.04.2024
Report Date / Rapor Tarihi : 26.04.2024
Total number of pages/Rapor Sayfa : 2 (Pg)

Sample ID : Kıvrıkcık Papas-Curly Mat

	TEST	METHOD	RESULT
-	PHTHALATE ANALYSIS	INHOUSE	See Table

NOTE: This test result replaces the conformity assessment, can be presented to official institutions, and used in products and brochures.



Seal

Customer Representative

Laboratory Manager

Merve Nur KIRVELİ

Merve ÖZLÜ

Test results, methods and other information about the sample shown in the relevant pages of this Report are based on the information specified in accordance with "Test Request Form (PR03-F01)" conveyed to us from the Applicant. Test results are valid for the sample as identified above. Sample may not represent the lot which it belongs. This Report does not replace a Product Certificate. Full report or any part of it may not be reproduced or used for any other purpose without the written permission of EUROLAB Laboratory. Sampling has not been done by us. Unsigned and unsealed Reports are invalid. Analysis as indicated with "*" are in the Scope of our Accreditation Certificate issued from UAF according to TS EN ISO/IEC 17020, 17025. Analysis as indicated with "**" are performed at the external laboratories using accredited test methods according to EN ISO/IEC 17020, 17025 from UAF. Possible extra notes may add with starting "N" to related pages. Tested and remaining samples will be kept in specified terms & conditions at test request and/or proposal form. Physically, chemically and microbiologically decomposed samples are discarded regardless of the storage period. Applicant can not claim any right in this regard. Results are shown in this Report do not include Measurement Uncertainty values. Measurement Uncertainty values are not taken in consideration during Pass/Fail assessment the of test results shown in this Report. Evaluation of the test results using Measurement Uncertainty values is the responsibility of the Applicant.

PR33-F01/08.10.2015/Rev:17.01.2017-R01

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Address: Merkez Mh, Dr Sadık Ahmet Cd, No 38/44, Bağcılar, İstanbul, Türkiye
 Contact: www.laboratuvar.com e-mail: info@laboratuvar.com

Test Report



Analysis was performed by GC/MS.

Test Results

Sample: Kivircık Paspas

Compound Name	CAS No	Unit	MDL	Result
Di-n-butyl phthalate (DBP)	84-74-2	ppm	5	N.D.
Di-iso-butyl phthalate (DIBP)	84-69-5	ppm	5	N.D.

ppm: mg/L

1. MDL= Method Detection Limit
2. N.D. = Not Detected

Sample Image

Adress: Merkez Mh, Dr Sadık Ahmet Cd, No 38/44, Bağcılar, İstanbul, Türkiye
Contact: www.laboratuvar.com e-mail: info@laboratuvar.com

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UZGE - KYF 510-1 TEST REPORT

 uzge İnovasyon Teknolojileri ve Ulusal Zemin Güvenliği Enstitüsü		 
		AB-1346-T 2022/011-1 03-22
UZGE-KYF 510-1 Test/Analysis Report		
		Page No : 1/3
Customer Name	: Petronan Kimya Gıda San. ve Tic. A.Ş.	
Customer Adress	: Gebze Güzelleri Org.San. Böl. İnönü mah. Atatürk Bulv. No:22/1 Gebze/KOCAELİ	
Order Number	: 2022/011	
The Date Of Sample Identify	: 17.03.2022	
Test Starting Date	: 22.03.2022	
Test Finishing Date	: 22.03.2022	
Number of Pages of The Report	: 3	
Inovasyon Tekn. and National Floor Safety Institute Laboratory accredited by TÜRKAK under registration number AB-1346-T for TS EN 17025:2017 as test laboratory. Turkish Accreditation Agency (TÜRKAK) 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. 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.		
Seal	Date	Person In Charge Of Test
	25.03.2022	Yük.Env.Eng.Burcu ŞAHAN
		Doç. Dr. Gültekin ÇOŞKUN
		
		 İnov. Tek. ve Ulusal Zemin Güvenliği Enstitüsü Dr. Gültekin ÇOŞKUN Cumhuriyet Teknokent Kuluçka Merkezi C.İ Kardeşler Mah. 35-51 Sok. No: 8 B Sivas / TÜRKİYE Telefon : 0 350 480 06 35 - GSM : 0 530 432 03 26 E-Posta : uzge@uzge.org.tr Web : www.uzge.org.tr & www.uzgetestekim.com
İnovasyon Teknolojileri ve Ulusal Zemin Güvenliği Enstitüsü Center : Cumhuriyet Teknokent Kuluçka Merkezi 58070 Sivas / TURKEY Laboratory : Kardeşler Mah. 35-51 Sok. No: 8 B Sivas / TÜRKİYE		
www.uzge.org & www.uzge.com.tr uzge@uzge.org Phone : 0 850 480 06 35 Gsm : 0 530 432 03 26		
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UZGE - KYF 510-1 TEST REPORT

 uzge İnovasyon Teknolojileri ve Ulusal Zemin Güvenliği Enstitüsü		AB-1346-T 2022/011-1 03-22	
UZGE-KYF 510-1 Test/Analysis Report			
			Page No : 2/3
Test / Analysis Method	: *DIN 51130 "Testing of floor coverings Determination of the anti-slip property - Workrooms and fields of activities with slip danger – Walking method - Ramp test		
Sample Name and Specifications	: Walkmats (Curly Mop)		
Sample Color	: Grey		
Sample Status	: New		
Test Conditions			
Test Device	: Ramp Test Device		
Test Measurement Direction	: Vertical To Support Bar		
Lubricating Liquid	: 10/30 Engine Oil		
Test Occasion	: UZGE Laboratory		
Temperature (C°)	: 17.2	Moisture	: 51%
In this report (*) marked test/analysis results accredited by Turkish Accreditation Agency (TURKAK). Responsible of Analysis Yük.İng.Eng.Burcu ŞAHAN 			
The laboratory does not have any responsibility. The results belong to the tested sample only.s			
İnovasyon Teknolojileri ve Ulusal Zemin Güvenliği Enstitüsü Center: Cumhuriyet Teknokent Kuluçka Merkezi 58070 Sivas / TURKEY Laboratory: Kardeşler Mah. 35-51 Sok. No: 8 B Sivas / TÜRKİYE		www.uzge.org & www.uzge.com.tr uzge@uzge.org Phone : 0 850 480 06 35 Gsm : 0 530 432 03 26	
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UZGE - KYF 510-1 TEST REPORT

 uzge Inovasyon Teknolojileri ve Ulusal Zemin Güvenliği Enstitüsü	AB-1346-T							
	2022/011-1							
	03-22							
UZGE-KYF 510-1 Test/Analysis Report								
		Page No : 3/3						
Result Of Measure								
<table border="1"> <thead> <tr> <th>Sample Code</th> <th>Slip Angle Result Of Measure(°)</th> <th>Clasification</th> </tr> </thead> <tbody> <tr> <td>Walkmats (Curly Mop)</td> <td>24,0°</td> <td>R11</td> </tr> </tbody> </table>			Sample Code	Slip Angle Result Of Measure(°)	Clasification	Walkmats (Curly Mop)	24,0°	R11
Sample Code	Slip Angle Result Of Measure(°)	Clasification						
Walkmats (Curly Mop)	24,0°	R11						
Responsible of Analysis Yük.Env.Eng.Burcu ŞAHAN 								
The laboratory does not have any responsibility. The results belong to the tested sample only.								
Inovasyon Teknolojileri ve Ulusal Zemin Güvenliği Enstitüsü Center Cumhuriyet Teknokent Kuluçka Merkezi 58070 Sivas / TURKEY Laboratory Kardeşler Mah. 35-51 Sok. No: 8 B Sivas / TÜRKİYE		www.uzge.org & www.uzge.com.tr uzge@uzge.org Phone : 0 850 480 06 35 Gsm : 0 530 432 03 26 						
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amfori BSCI Producer self-declaration

To whom it may concern,

PETRONAN KİMYA hereby declare that the company has signed the amfori BSCI Code of Conduct. Furthermore, We declare the company meets amfori BSCI criteria to be audited following the amfori BSCI Small Producer Assessment (SPA), because:

- It is an independent business unit (no branch or part of a group)
- Over the last 12 months, it has employed total **78** workers, including **100**.

We understand that any false statements or concealment of a material fact will trigger a Zero Tolerance alert according to the amfori BSCI protocol.

We acknowledge that the company shall inform the amfori members and/or the relevant monitoring person/ auditor of any change to the structure or turnover that may exclude the company from being eligible for amfori BSCI SPA.

We accept the disclosure of this document in the amfori Sustainability Platform's business partner profile. We agree that the documents will be visible to all the users who have access to the producer profile in the amfori sustainability Platform.

Date _____

11.11.2024

PETRONAS KİMYA GIDA SAN. VE TİC.A.Ş.
Gıda ve Kimya Ürünleri Grubu, Sarıyer İstanbul Mahallesi
Ajlalark Bulvarı No:227, Kat: 7 KOCASİİ
Tf: 0262 679 13 00-0301 0262 679 58 01
Yarışlan M.D. 220555501 Sicil No:29377

amfori BSCI Self-declaration



HILKAR
ELEKTRİK ELEKTROTEKNİK SAN. VE TİC. LTD. ŞTİ.
TEST LABORATORY / DENEY LABORATUVARI
1. Organize Sanayi Bölgesi 10 No'lu Yol No: 9 54580
ARİFİYE / SAKARYA / TÜRKİYE
Tel : +90 264 275 55 40 Fax : +90 264 275 12 76



Test
TS EN ISO IEC 17025
AB-0665-T

AB-0665-T

2411084

01-25

TEST REPORT DENEY RAPORU

Customer Name : Petronan Kimya Gıda San. Tic. A.Ş.
Müşterinin Adı
Customer Address : İnönü Mah. Gebze Güzeller OSB Mah. Atatürk Blv. No:22/1
Müşterinin Adresi
Description of Sample : 5,2 mm Red Electrical Insulating Mat / Kırmızı Elektrik İzole Hali
Numunenin Tanımı
Trade Mark / Type : -
Marka / Tip
Test(s) Performed : Voltage Proof Test / Gerilim Doğrulama Deneyi
Yapılan Deney(ler) : Voltage Withstand Test / Gerilim Dayanıklılık Deneyi
Test Standart(s) : IEC 61111:2009 Clause 5.6 / TS EN 61111:2011 Madde 5.6
Deney Standart(lar)ı
Serial Number(s) : -
Seri No(lar)
Reception Date of Sample : 27.11.2024
Numune Kabul Tarihi
Test Date(s) : 29.11.2024
Deney Tarih(ler)i
Number of Pages of the Report : 8
Raporun Sayfa Sayısı
Test(s) Result(s) : ☒ Passed / Geçti ☐ Failed / Olumsuz ☐ Other / Diğer
Deney Sonuçları

HILKAR is accredited by TÜRKAK under registration number AB-0665-T for TS EN ISO IEC 17025:2017 as test laboratory.

Deney Laboratuvarı olarak faaliyet gösteren HILKAR, TÜRKAK'tan AB-0665-T ile TS EN ISO IEC 17025:2017 standardına göre akredite edilmiştir.

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

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

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

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



Seal
Mühür / Kaşe

22.01.2025

Date of Publication
Yayımlandığı Tarih

Person in Charge of Test
Deney Sorumlusu

Mustafa KORKMAZ
Test Technician

Approval / Onaylayan
Date / Tarih

22.01.2025

Eğes HIZ
Laboratory Manager

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Bu rapor, Laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürlü raporlar geçersizdir.
FRM.11 / REV06 / 11.2020

Page / Sayfa 1 / 8



HILKAR Elektrik Elektroteknik San. ve Tic. Ltd. Şti.
Test Laboratory / Deney Laboratuvarı

AB-0665-T
2411084
01-25

1. IDENTIFICATION OF THE TEST SAMPLE * / NUMUNENİN TANIMLANMASI *

Product Name / Ürün Adı	: Electrical Insulating Mat / Elektrik İzole Hali
Type / Tip	: Red / Kırmızı
Serial Number / Seri Numarası	: -
Technical Drawing(s) / Teknik Çizim(ler)	: -
Contract No / Sözleşme No	: FT-DNY-09.002.2024
Product Condition / Numunenin Durumu	: New / Yeni

2. TECHNICAL CHARACTERISTICS * / TEKNİK ÖZELLİKLER *

Manufacturer / Üretici	: Petronan Kimya Gıda San. Tic. A.Ş.
Manufacturing Year / Üretim Yılı	: 2024
Thickness / Kalınlık	: 5,2 mm
Maximum Use Voltage / Maksimum Kullanım Gerilimi	: 17000 Vac
Proof Voltage / Doğrulama Gerilimi	: 20000 Vac
Withstand Voltage / Dayanıklılık Gerilimi	: 30000 Vac
Colour / Renk	: Red / Kırmızı
Surface Shape / Yüzey Şekli	: Fine Ribbed / Tırtıklı Yüzey
Material / Malzeme	: Vulcanized Elastomer / Güçlendirilmiş Kauçuk
Density / Yoğunluk	: 1,52 g/cm3
Hardness ShoreA / Sertlik	: 91 ShoreA
Break / Kopma	: 12,8 N/mm2
Elongation at Break / Kopma Anında Uzaması	: %310

* The descriptions of the test sample are provided by customer. Our laboratory cannot be held responsible for this information. / Test numunesine ait tanımlamalar müşteri tarafından sağlanan bilgilerdir. Bu bilgilerden dolayı laboratuvarımız sorumlu tutulamaz. Bu bir feragat beyanıdır.



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Bu rapor, Laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürlü raporlar geçersizdir.

FRM.11 / REV06 / 11.2020

Page / Sayfa: 2 / 8



WALKMATS



HİLKAR Elektrik Elektroteknik San. ve Tic. Ltd. Şti.
Test Laboratory / Deney Laboratuvarı

AB-0665-T
2411084
01-25

3. TEST(S) PROGRAM / DENEY(LER) PROGRAMI

3.1. Voltage Proof Test / Gerilim Doğrulama Deneyi

3.2. Voltage Withstand Test / Gerilim Dayanıklılık Deneyi

Witnessed By / Müşteri Adına Gözlemciler

: -

4. APPLIED TEST(S) / UYGULANAN DENEY(LER)

➤ **Test results only belong to the tested sample.**

Deney sonuçları sadece test edilen numuneye aittir.

➤ **The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$ which for a normal distribution corresponds to a coverage probability of approximately 95 %.**

Beyan edilen genişletilmiş ölçüm belirsizliği, standart belirsizliğin $k=2$ olarak alınan genişletme katsayısı ile çarpımı sonucunda bulunan değerdir ve % 95 oranında güvenilirlik sağlamaktadır.

➤ **When a declaration of conformity (appropriate or non-compliant) is given regarding to the test results, if a rule is defined in the legislation, standard and specification, this rule is applied, otherwise the laboratory uses the false acceptance (consumer rule) rule. When the uncertainty of measurement affects the upper limit, the uncertainty of measurement is added to the test result and it is subtracted when the lower limit affects.**

Deney sonuçları ile ilgili uygunluk beyanı (uygundur veya uygun değildir) verildiğinde, mevzuatta, standartta, şartnamede bir kural tanımlı ise bu kural uygulanır, tanımlı değilse laboratuvarımız yanlış kabul (tüketici kuralı) kuralını kullanır. Ölçüm belirsizliği üst sınırı etkilediğinde ölçüm belirsizliği deney sonucuna eklenerek, alt sınırı etkilediğinde çıkarılarak uygunluk değerlendirilmesi yapılır.

➤ **Abnegation of Compliance: The tests are performed within the knowledge of customer in the case where the information is provided by customer effects the validity of the results, the customer is responsible. The results those validities are affected are indicated at related test clauses.**

Feragat Beyanı: Müşterinin verdiği bilgilerin sonuçların geçerliliğini etkilemesi durumunda, bu durumdan müşteri sorumlu olur. Deney numunesinin beyan edilen özellikleri karşılamaması ve bu durumun deney sonuçlarını etkilemesi halinde müşteri bilgisi dahilinde deney yapılırsa, etkilenen deney sonuçları ilgili deney başlığı altında belirtilir.



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Test Laboratory / Deney Laboratuvarı

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4.1. Voltage Proof Test / Gerilim Doğrulama Deneyi

4.1.1. Sample Standard / Ürün Standardı : IEC 61111:2009 / TS EN 61111:2011

4.1.2. Test Standards / Deney Standardı : IEC 61111:2009 Clause 5.6
TS EN 61111:2011 Madde 5.6

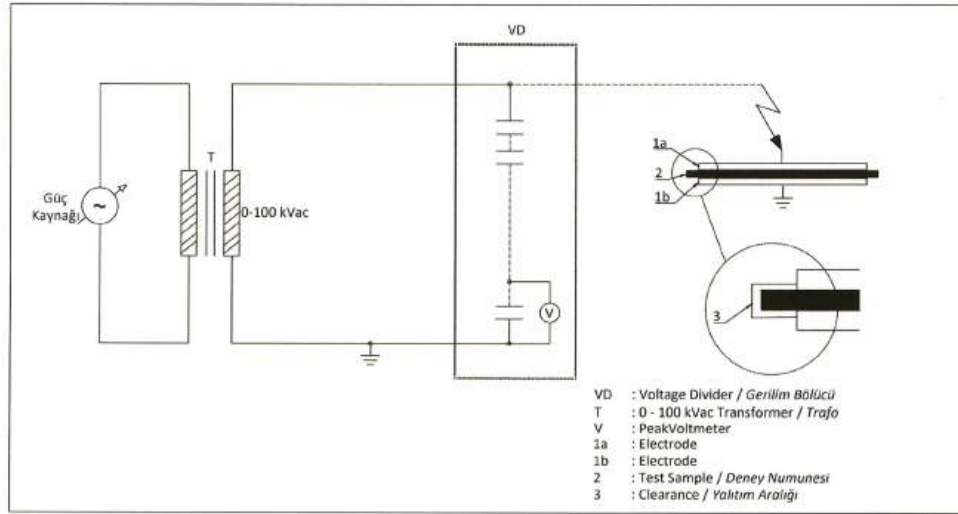
4.1.3. Equipment Used / Kullanılan Ekipmanlar : 100 kV AC High Voltage Measurement System (K001)
100 kV AC Yüksek Gerilim Ölçüm Sistemi (K001)
Ambient Conditions Recording Device (K274)
Ortam Şartları Kayıt Cihazı (K274)

4.1.4. Ambient Conditions / Çevre Şartları : Ambient Temperature / Ortam Sıcaklığı : 19,3 °C

Ambient Humidity / Ortam Nemi : 42,3 %RH

Air Pressure / Hava Basıncı : 1018,5 mbar

4.1.5. Test Circuit / Deney Devresi



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4.1.6. Measurement Results / Ölçüm Sonuçları:

S. No	HV Applied Terminals YG Uygulanan Terminaller	Earthed Terminals Topraklanan Terminaller	Test Sample Test Numunesi	Applied AC Voltage Uygulanan AC Gerilim (kV)	Duration / Süre (sec. İsn.)	Results Sonuçlar
1	775x775 mm Electrode	775x775 mm Electrode	5,2x920x920 mm	20 kV 50 Hz	180	✓
✓ : Passed / Geçti ✗ : Failed / Geçmedi O : Out of Evaluation/Değerlendirme Dışı						

➤ **Disruptive discharge was not occurred during the test.**

Deney sırasında tahrip edici boşalma meydana gelmemiştir.

➤ **Test was carried out according to insulation mat class 2.**

İzole Halı Sınıf 2'e göre test yapılmıştır.

➤ **Test voltage according to IEC 61111 clause 5.6.4 table 4 was applied.**

Deney gerilimi TS EN 61111 madde 5.6.4 tablo 4'e göre uygulanmıştır.

➤ **Electrodes according to IEC 61111 clause 5.6.2.2.1 table 3 was selected.**

Elektrotlar TS EN 61111 madde 5.6.2.2.1 çizelge 3'e göre seçilmiştir.

➤ **Before the test, The insulation mat was conditioned for moisture absorption by total immersion in a bath of tap water with a resistivity of $(100 \pm 15) \Omega \cdot m$ at room temperature for a period of $16 h \pm 0,5 h$.**

Test öncesinde, İzole halı $16(\pm 0,5)$ saat süreyle $(100 \pm 15) \Omega \cdot m$ su banyosuna tamamen daldırılarak nem emilimi için şartlandırıldı.

Measurement Uncertainty / Ölçüm Belirsizliği: 0,61 %



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4.2. Voltage Withstand Test / Gerilim Dayanıklılık Deneyi

4.2.1. Sample Standard / Ürün Standardı : IEC 61111:2009 / TS EN 61111:2011

4.2.2. Test Standards / Deney Standardı : IEC 61111:2009 Clause 5.6
TS EN 61111:2011 Madde 5.6

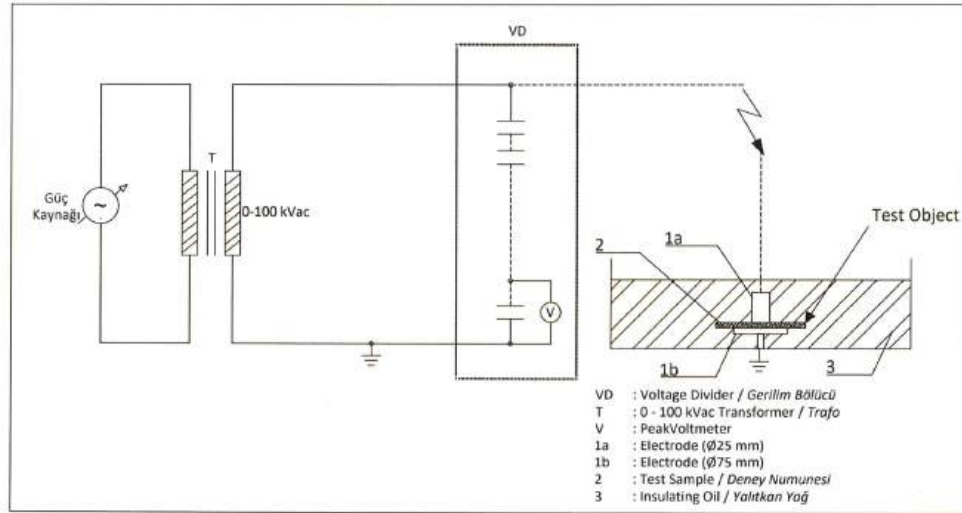
4.2.3. Equipment Used / Kullanılan Ekipmanlar : 100 kV AC High Voltage Measurement System (K001)
100 kV AC Yüksek Gerilim Ölçüm Sistemi (K001)
Ambient Conditions Recording Device (K274)
Ortam Şartları Kayıt Cihazı (K274)

4.2.4. Ambient Conditions / Çevre Şartları : Ambient Temperature / Ortam Sıcaklığı : 19,3 °C

Ambient Humidity / Ortam Nemi : 42,3 %RH

Air Pressure / Hava Basıncı : 1018,5 mbar

4.2.5. Test Circuit / Deney Devresi



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4.2.6. Measurement Results / Ölçüm Sonuçları:

S.N.	HV Applied Terminals YG Uygulanan Terminaller	Earthed Terminals Topraklanan Terminaller	Test Sample Test Numunesi	Applied AC Voltage Uygulanan AC Gerilim (kV)	Results Sonuçlar
1	Ø25 mm Electrode	Ø75 mm Electrode	5,2x150x150 mm	30 kV 50 Hz	✓
2	Ø25 mm Electrode	Ø75 mm Electrode	5,2x150x150 mm	30 kV 50 Hz	✓
3	Ø25 mm Electrode	Ø75 mm Electrode	5,2x150x150 mm	30 kV 50 Hz	✓
✓ : Passed / Geçti ✗ : Failed / Geçmedi O : Out of Evaluation / Değerlendirme Dışı					

- **Disruptive discharge was not occurred during the test.**
Deney sırasında tahrip edici boşalma meydana gelmemiştir.
- **During the test, the test sample is in insulating oil.**
Test esnasında deney numunesi izolasyon sıvısının içindedir.
- **The test voltage was applied to each test piece at a constant rate-of-rise of 1000 V/s until the withstand voltage value.**
Test gerilimi, dayanım gerilimi değerine kadar her test parçasına 1000 V/sn'lik sabit bir artış hızında uygulanmıştır.
- **Test was carried out according to insulation mat class 2.**
İzole Halı Sınıf 2'e göre test yapılmıştır.
- **Test voltage according to IEC 61111 clause 5.6.4 table 4 was applied.**
Deney gerilimi TS EN 61111 madde 5.6.4 tablo 4'e göre uygulanmıştır.
- **Electrodes according to IEC 61111 clause 5.6.2.3 was selected.**
Elektrotlar TS EN 61111 madde 5.6.2.3'e göre seçilmiştir.
- **Before the test, The insulation mat was conditioned for moisture absorption by total immersion in a bath of tap water with a resistivity of $(100 \pm 15) \Omega \cdot m$ at room temperature for a period of $16 h \pm 0,5 h$.**
Test öncesinde, İzole halı $16(\pm 0,5)$ saat süreyle $(100 \pm 15) \Omega \cdot m$ su banyosuna tamamen daldırılarak nem emilimi için şartlandırıldı.

Measurement Uncertainty / Ölçüm Belirsizliği: 0,61 %



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5. PHOTOS OF THE TEST SAMPLE / DENEY NUMUNESİNE AİT FOTOĞRAFLAR



End of Report / Rapor Sonu

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ELEKTRİK ELEKTROTEKNİK SAN. VE TİC. LTD. ŞTİ.
TEST LABORATORY / DENEY LABORATUVARI

1. Organize Sanayi Bölgesi 10 No'lu Yol No: 9 54580
ARIFIYE / SAKARYA / TÜRKİYE
Tel : +90 264 275 55 40 Fax : +90 264 275 12 76



Test
TS EN ISO IEC 17025
AB-0665-T

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TEST REPORT
DENEY RAPORU

Customer Name : Petronan Kimya Gıda San. Tic. A.Ş.
Müşterinin Adı
Customer Address : İnönü Mah. Gebze Güzeller OSB Mah. Atatürk Blv. No:22/1
Müşterinin Adresi
Description of Sample : 5,2 mm Gray Electrical Insulating Mat / Gri Elektrik İzole Hali
Numunenin Tanımı
Trade Mark / Type : -
Marka / Tip
Test(s) Performed : **Voltage Proof Test / Gerilim Doğrulama Deneyi**
Yapılan Deney(ler) : **Voltage Withstand Test / Gerilim Dayanıklılık Deneyi**
Test Standard(s) : IEC 61111:2009 Clause 5.6 / TS EN 61111:2011 Madde 5.6
Deney Standart(lar)ı
Serial Number(s) : -
Seri No(lar)
Reception Date of Sample : 27.11.2024
Numune Kabul Tarihi
Test Date(s) : 29.11.2024
Deney Tarih(ler)i
Number of Pages of the Report : 8
Raporun Sayfa Sayısı
Test(s) Result(s) : ☒ Passed / Geçti ☐ Failed / Olumsuz ☐ Other / Diğer
Deney Sonuçları

HILKAR is accredited by TÜRKAK under registration number AB-0665-T for TS EN ISO IEC 17025:2017 as test laboratory.

Deney Laboratuvarı olarak faaliyet gösteren HILKAR, TÜRKAK'tan AB-0665-T ile TS EN ISO IEC 17025:2017 standardına göre akredite edilmiştir.

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

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.

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

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

Seal Mühür / Kaşe	Date of Publication Yayımlandığı Tarih	Person in Charge of Test Deney Sorumlusu	Approval / Onaylayan Date / Tarih
	22.01.2025	 Mustafa KORKMAZ Test Technican	 Enes Hilkar Laboratory Manager

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1. IDENTIFICATION OF THE TEST SAMPLE * / NUMUNENİN TANIMLANMASI *

Product Name / Ürün Adı	: Electrical Insulating Mat / Elektrik İzole Hali
Type / Tip	: Gray / Gri
Serial Number / Seri Numarası	: -
Technical Drawing(s) / Teknik Çizim(ler)	: -
Contract No / Sözleşme No	: FT-DNY-09.002.2024
Product Condition / Numunenin Durumu	: New / Yeni

2. TECHNICAL CHARACTERISTICS * / TEKNİK ÖZELLİKLER *

Manufacturer / Üretici	: Petronan Kimya Gıda San. Tic. A.Ş.
Manufacturing Year / Üretim Yılı	: 2024
Thickness / Kalınlık	: 5,2 mm
Maximum Use Voltage / Maksimum Kullanım Gerilimi	: 17000 Vac
Proof Voltage / Doğrulama Gerilimi	: 20000 Vac
Withstand Voltage / Dayanıklılık Gerilimi	: 30000 Vac
Colour / Renk	: Gray / Gri
Surface Shape / Yüzey Şekli	: Fine Ribbed / Tırtıklı Yüzey
Material / Malzeme	: Vulcanized Elastomer / Güçlendirilmiş Kauçuk
Density / Yoğunluk	: 1,60 g/cm ³
Hardness ShoreA / Sertlik	: 90 ShoreA
Break / Kopma	: 8,9 N/mm ²
Elongation at Break / Kopma Anında Uzaması	: %270

* The descriptions of the test sample are provided by customer. Our laboratory cannot be held responsible for this information. / Test numunesine ait tanımlamalar müşteri tarafından sağlanan bilgilerdir. Bu bilgilerden dolayı laboratuvarımız sorumlu tutulamaz. Bu bir feragat beyanıdır.



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3. TEST(S) PROGRAM / DENEY(LER) PROGRAMI

3.1. Voltage Proof Test / Gerilim Doğrulama Deneyi

3.2. Voltage Withstand Test / Gerilim Dayanıklılık Deneyi

Witnessed By / Müşteri Adına Gözlemciler : -

4. APPLIED TEST(S) / UYGULANAN DENEY(LER)

- **Test results only belong to the tested sample.**
Deney sonuçları sadece test edilen numuneye aittir.
- **The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$ which for a normal distribution corresponds to a coverage probability of approximately 95 %.**
Beyan edilen genişletilmiş ölçüm belirsizliği, standart belirsizliğin $k=2$ olarak alınan genişletme katsayısı ile çarpımı sonucunda bulunan değerdir ve % 95 oranında güvenilirlik sağlamaktadır.
- **When a declaration of conformity (appropriate or non-compliant) is given regarding to the test results, if a rule is defined in the legislation, standard and specification, this rule is applied, otherwise the laboratory uses the false acceptance (consumer rule) rule. When the uncertainty of measurement affects the upper limit, the uncertainty of measurement is added to the test result and it is subtracted when the lower limit affects.**
Deney sonuçları ile ilgili uygunluk beyanı (uygundur veya uygun değildir) verildiğinde, mevzuatta, standartta, şartnamede bir kural tanımlı ise bu kural uygulanır, tanımlı değilse laboratuvarımız yanlış kabul (tüketici kuralı) kuralını kullanır. Ölçüm belirsizliği üst sınırı etkilediğinde ölçüm belirsizliği deney sonucuna eklenerek, alt sınırı etkilediğinde çıkarılarak uygunluk değerlendirilmesi yapılır.
- **Abnegation of Compliance: The tests are performed within the knowledge of customer in the case where the information is provided by customer effects the validity of the results, the customer is responsible. The results those validities are affected are indicated at related test clauses.**
Feragat Beyanı: Müşterinin verdiği bilgilerin sonuçların geçerliliğini etkilemesi durumunda, bu durumdan müşteri sorumlu olur. Deney numunesinin beyan edilen özellikleri karşılamaması ve bu durumun deney sonuçlarını etkilemesi halinde müşteri bilgisi dahilinde deney yapılırsa, etkilenen deney sonuçları ilgili deney başlığı altında belirtilir.



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4.1. Voltage Proof Test / Gerilim Doğrulama Deneyi

4.1.1. Sample Standard / Ürün Standardı : IEC 61111:2009 / TS EN 61111:2011

4.1.2. Test Standards / Deney Standardı : IEC 61111:2009 Clause 5.6
TS EN 61111:2011 Madde 5.6

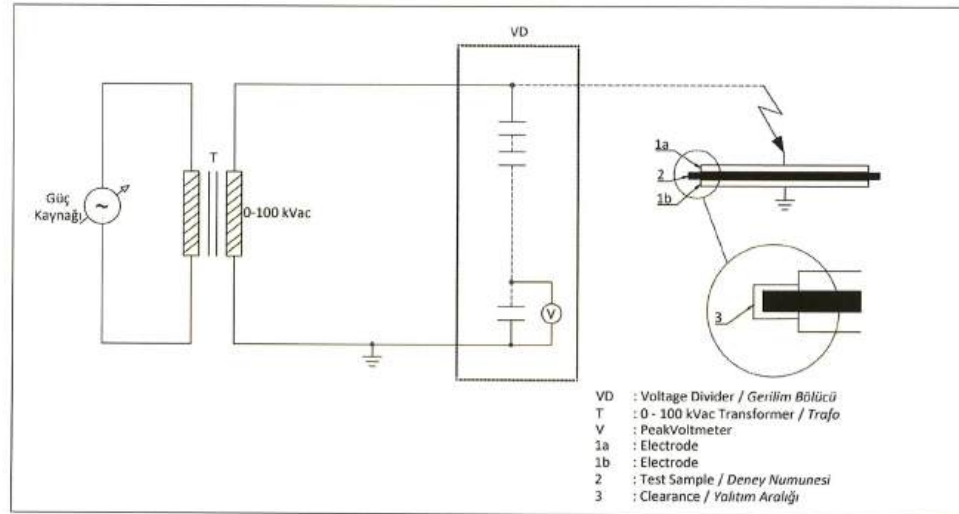
4.1.3. Equipment Used / Kullanılan Ekipmanlar : 100 kV AC High Voltage Measurement System (K001)
100 kV AC Yüksek Gerilim Ölçüm Sistemi (K001)
Ambient Conditions Recording Device (K274)
Ortam Şartları Kayıt Cihazı (K274)

4.1.4. Ambient Conditions / Çevre Şartları : Ambient Temperature / Ortam Sıcaklığı : 19,3 °C

Ambient Humidity / Ortam Nemi : 42,3 %RH

Air Pressure / Hava Basıncı : 1018,5 mbar

4.1.5. Test Circuit / Deney Devresi



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4.1.6. Measurement Results / Ölçüm Sonuçları:

Sz.	HV Applied Terminals YG Uygulanan Terminaller	Earthed Terminals Topraklanan Terminaller	Test Sample Test Numunesi	Applied AC Voltage Uygulanan AC Gerilim (kV)	Duration / Süre (sec. / sn.)	Results Sonuçlar
1	775x775 mm Electrode	775x775 mm Electrode	5,2x920x920 mm	20 kV 50 Hz	180	✓
✓ : Passed / Geçti ✗ : Failed / Geçmedi O : Out of Evaluation/Değerlendirme Dışı						

➤ **Disruptive discharge was not occurred during the test.**

Deney sırasında tahrip edici boşalma meydana gelmemiştir.

➤ **Test was carried out according to insulation mat class 2.**

İzole Halı Sınıf 2'e göre test yapılmıştır.

➤ **Test voltage according to IEC 61111 clause 5.6.4 table 4 was applied.**

Deney gerilimi TS EN 61111 madde 5.6.4 tablo 4'e göre uygulanmıştır.

➤ **Electrodes according to IEC 61111 clause 5.6.2.2.1 table 3 was selected.**

Elektrotlar TS EN 61111 madde 5.6.2.2.1 çizelge 3'e göre seçilmiştir.

➤ **Before the test, the insulation mat was conditioned for moisture absorption by total immersion in a bath of tap water with a resistivity of $(100 \pm 15) \Omega \cdot m$ at room temperature for a period of $16 h \pm 0,5 h$.**

Test öncesinde, İzole halı $16(\pm 0,5)$ saat süreyle $(100 \pm 15) \Omega \cdot m$ su banyosuna tamamen daldırılarak nem emilimi için şartlandırıldı.

Measurement Uncertainty / Ölçüm Belirsizliği: 0,61 %



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4.2. Voltage Withstand Test / Gerilim Dayanıklılık Deneyi

4.2.1. Sample Standard / Ürün Standardı : IEC 61111:2009 / TS EN 61111:2011

4.2.2. Test Standards / Deney Standardı : IEC 61111:2009 Clause 5.6
TS EN 61111:2011 Madde 5.6

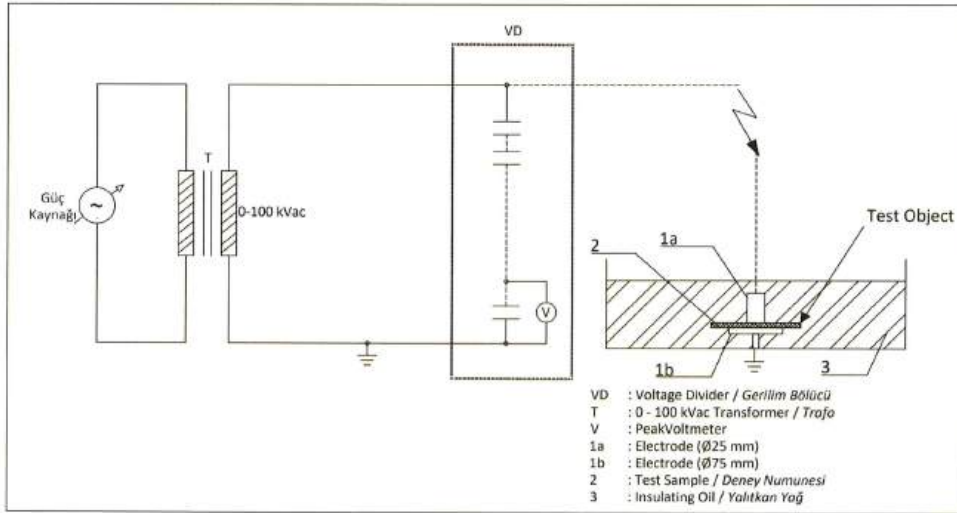
4.2.3. Equipment Used / Kullanılan Ekipmanlar : 100 kV AC High Voltage Measurement System (K001)
100 kV AC Yüksek Gerilim Ölçüm Sistemi (K001)
Ambient Conditions Recording Device (K274)
Ortam Şartları Kayıt Cihazı (K274)

4.2.4. Ambient Conditions / Çevre Şartları : Ambient Temperature / Ortam Sıcaklığı : 19,3 °C

Ambient Humidity / Ortam Nemi : 42,3 %RH

Air Pressure / Hava Basıncı : 1018,5 mbar

4.2.5. Test Circuit / Deney Devresi :



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4.2.6. Measurement Results / Ölçüm Sonuçları:

S.N.	HV Applied Terminals YG Uygulanan Terminaller	Earthed Terminals Topraklanan Terminaller	Test Sample Test Numunesi	Applied AC Voltage Uygulanan AC Gerilim (kV)	Results Sonuçlar
1	Ø25 mm Electrode	Ø75 mm Electrode	5,2x150x150 mm	30 kV 50 Hz	✓
2	Ø25 mm Electrode	Ø75 mm Electrode	5,2x150x150 mm	30 kV 50 Hz	✓
3	Ø25 mm Electrode	Ø75 mm Electrode	5,2x150x150 mm	30 kV 50 Hz	✓

✓ : Passed / Geçti ✗ : Failed / Geçmedi O : Out of Evaluation / Değerlendirme Dışı

- **Disruptive discharge was not occurred during the test.**
Deney sırasında tahrip edici boşalma meydana gelmemiştir.
- **During the test, the test sample is in insulating oil.**
Test esnasında deney numunesi izolasyon sıvısının içindedir.
- **The test voltage was applied to each test piece at a constant rate-of-rise of 1000 V/s until the withstand voltage value.**
Test gerilimi, dayanım gerilimi değerine kadar her test parçasına 1000 V/sn'lik sabit bir artış hızında uygulanmıştır.
- **Test was carried out according to insulation mat class 2.**
İzole Halı Sınıf 2'e göre test yapılmıştır.
- **Test voltage according to IEC 61111 clause 5.6.4 table 4 was applied.**
Deney gerilimi TS EN 61111 madde 5.6.4 tablo 4'e göre uygulanmıştır.
- **Electrodes according to IEC 61111 clause 5.6.2.3 was selected.**
Elektrotlar TS EN 61111 madde 5.6.2.3'e göre seçilmiştir.
- **Before the test, The insulation mat was conditioned for moisture absorption by total immersion in a bath of tap water with a resistivity of $(100 \pm 15) \Omega \cdot m$ at room temperature for a period of 16 h $\pm$ 0,5 h.**
Test öncesinde, İzole halı $16(\pm 0,5)$ saat süreyle $(100 \pm 15) \Omega \cdot m$ su banyosuna tamamen daldırılarak nem emilimi için şartlandırıldı.

Measurement Uncertainty / Ölçüm Belirsizliği: 0,61 %



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5. PHOTOS OF THE TEST SAMPLE / DENEY NUMUNESİNE AİT FOTOĞRAFLAR



End of Report / Rapor Sonu



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EUROLAB - EN 16165 Slip Resistance Report

EN 13501-1 Reaction to Fire Report

INSPECTION REPORT

TR12323498

18.06.2026



EUROLAB INC.



Report No/ Rapor No : 2026061846
Applicant/Deney Sahibi : Petronan Kimya Gıda San. Tic. A.Ş.
Applicant Address / Adres : Örnekköy Mh. Köyiçi Sk 113/1 Orhangazi/Bursa
Contact Person / Yetkili : Melike Özkan
Contact Telephone / Telefon: 0530 548 04 20
Contact e-mail / E-Posta: -
Sample Accepted on / Numune Tarihi: 03.06.2026
Report Date / Rapor Tarihi : 18.06.2026
Total number of pages/Rapor Sayfa : 6 Pages

Sample ID : PVC Kırıkcık Paspas

	TEST/INSPECTION	DIRECTIVE	METHOD	RESULT
*	Determination of slip resistance of pedestrian surfaces - Methods of evaluation	Genel Ürün Güvenliği Direktifi (GPSD) (2001/95/EC)	EN 16165 Annex B	R12
*	Fire classification of construction products and building elements - Classification using data from reaction to fire tests		EN 13501-1	B _{fl} s1

NOTE: This test/inspection result replaces the conformity assessment, can be submitted to official institutions, and can be used in products and brochures.



Seal



Customer Representative

Merve Nur KIRVELİ



Laboratory Manager

Merve ÖZLÜ

Test/inspection results, methods and other information about the sample shown in the relevant pages of this Report are based on the information specified in accordance with "Test/inspection Request Form (PR03-F01)" conveyed to us from the Applicant. Test/inspection results are valid for the sample as identified above. Sample may not represent the lot which it belongs. This Report does not replace a Product Certificate. Full report or any part of it may not be reproduced or used for any other purpose without the written permission of EUROLAB Laboratory. Sampling has not been done by us. Unsigned and unsealed Reports are invalid. Analysis as indicated with "*" are in the Scope of our Accreditation Certificate issued from UAF according to TS EN ISO/IEC 17020, 17025. Analysis as indicated with "****" are performed at the external laboratories using accredited test/inspection methods according to EN 150/IEC 17020, 17025 from UAF. Possible extra notes may add with starting "N" to related pages. Tested and remaining samples will be kept in specified terms & conditions at test/inspection request and/or proposal form. Physically, chemically and microbiologically decomposed samples are discarded regardless of the storage period. Applicant cannot claim any right in this regard. Results are shown in this Report do not include Measurement Uncertainty values. Measurement Uncertainty values are not taken in consideration during Pass/Fail assessment the of test/inspection results shown in this Report. Evaluation of the test/inspection results using Measurement Uncertainty values is the responsibility of the Applicant. An inspection body shall issue an inspection certificate that does not include the inspection results only when the inspection body can also produce an inspection report containing the inspection results, and when both the inspection certificate and inspection report are traceable to each other.

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Inspection Report



EN 16165: Determination of slip resistance of pedestrian surfaces - Methods of evaluation

Scope

This document specifies test methods for determining the slip resistance of surfaces used by pedestrians.

Test Methods

Carry out test according to Annex A to Annex D. If tests are performed in the laboratory, the room temperature should be $(20 \pm 5) ^\circ\text{C}$ unless otherwise stated.

Annex B – Shod Ramp Test

Principle

Two test persons wearing shoes are used to determine the angle of slip, after the pedestrian surface material being tested has been evenly coated with oil. The test persons, each in turn, facing down the ramp and with an upright posture, move forwards and backwards over the test surface, as they increase their angle of inclination, until the safe limit of walking is reached and a slip occurs. The mean angle of slip obtained is used to express the degree of slip resistance.

Test Conditions

Test liquid type: SAE 10W-30 engine oil

Test liquid quantity: $200 \pm 20 \text{ ml/m}^2$

Test footwear material type: Rubber based

Test footwear Shore A hardness: 73 ± 5

Test surface dimensions for sample: 1500 mm $\times$ 500 mm

Test temperature: $20 \pm 5^\circ\text{C}$

Test Procedure

Test surfaces were cleaned and oil was brushed onto the surface of the sample surface and the soles of the footwear.

Initial slope of ramp was taken 0° .

Test subjects were made to walk forward and backward on the ramp with seat belts.

The slope of the ramp was gradually increased and the sliding angle was recorded.



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Test Result
According to the DIN EN 16165:2023 Table NB.2, assignment of the α_{shod} ramp test result to the slip resistance classes is determined as below:

α_{shod} test result (B.5)	Slip resistance class
6° to 10°	R9
Over 10° to 19°	R10
Over 19° to 27°	R11
Over 27° to 35°	R12
Over 35°	R13

Sample	Shod ramp test value (α_{shod})	Slip resistance class
PVC Kivırcık Paspas	29°	R12

EN 13501-1: Fire classification of construction products and building elements - Classification using data from reaction to fire tests

Scope
This document provides the reaction to fire classification procedure for all construction products, including products incorporated within building elements with the exception of power, control and communication cables which are covered by EN 13501-6. Products are considered in relation to their end use application.

Related Product Standard	EN 13501-1 (Fire Classification)
Conditioning	23 ± 2 °C temperature and 50 ± 5% relative humidity (EN 13238)
Tested Sample	PVC Kivırcık Paspas



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Test Methods and Field of Application Rules

Non-combustibility test (EN ISO 1182)

This test identifies products that will not, or not significantly, contribute to a fire, regardless of their end use.

The test is relevant for the classes A1, A2, A1fl, A2fl, A1L and A2L.

Heat of combustion test (EN ISO 1716)

This test determines the potential maximum total heat release of a product when completely burned, regardless of its end use.

The test is relevant for the classes A1, A2, A1fl, A2fl, A1L and A2L.

Ignitability test (EN ISO 11925-2)

This test evaluates the ignitability of a product under exposure to a small flame. The test is relevant for the classes B, C, D, E, F, Bfl, Cfl, Dfl, Efl, Ffl BL, CL, DL, EL and FL.

Determination of the burning behaviour of floorings, using a radiant heat source (EN ISO 9239-1)

This test evaluates the critical radiant flux below which flames no longer spread over a horizontal surface. The test is relevant for the classes A2fl, Bfl, Cfl and Dfl.

Classes of reaction to fire performance for floorings

Class	Test method(s)	Classification criteria	Additional classifications
A1 _{fl}	EN ISO 1182 ^a and	$\Delta T \leq 30 \text{ }^{\circ}\text{C}$; and $\Delta m \leq 50 \text{ \%}$; and $t_f = 0 \text{ s}$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2,0 \text{ MJ/kg}^a$ and $PCS \leq 2,0 \text{ MJ/kg}^b$ and $PCS \leq 1,4 \text{ MJ/m}^2^c$ and $PCS \leq 2,0 \text{ MJ/kg}^d$	-
A2 _{fl}	EN ISO 1182 ^a or	$\Delta T \leq 50 \text{ }^{\circ}\text{C}$ and $\Delta m \leq 50 \text{ \%}$ and $t_f \leq 20 \text{ s}$	-
	EN ISO 1716 and	$PCS \leq 3,0 \text{ MJ/kg}^a$ and $PCS \leq 4,0 \text{ MJ/m}^2^b$ and $PCS \leq 4,0 \text{ MJ/m}^2^c$ and $PCS \leq 3,0 \text{ MJ/kg}^d$	-
	EN ISO 9239-1 ^e	Critical flux ^f $\geq 8,0 \text{ kW/m}^2$	Smoke production ^g
B _{fl}	EN ISO 9239-1 ^e and	Critical flux ^f $\geq 8,0 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
C _{fl}	EN ISO 9239-1 ^e and	Critical flux ^f $\geq 4,5 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-

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D _{fi}	EN ISO 9239-1 ^e and	Critical flux ^f ≥ 3,0 kW/m ²	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	F _s ≤ 150 mm within 20 s	-
E _{fi}	EN ISO 11925-2 ^h : Exposure = 15 s	F _s ≤ 150 mm within 20 s	-
F _{fi}	EN ISO 11925-2 ^h : Exposure = 15 s	F _s ≤ 150 mm within 20 s	

^a For homogeneous products and substantial components of non-homogeneous products.

^b For any external non-substantial component of non-homogeneous products.

^c For any internal non-substantial component of non-homogeneous products.

^d For the product as a whole.

^e Test duration = 30 min.

^f Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).

^g s1 = Smoke ≤ 750 % min;

s2 = not s1.

^h Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.

Test Results

Sample	Test method	Parameter	Results
PVC Kivırcık Paspas	EN ISO 11925-2	F _s ≤ 150 mm	76 mm
			73 mm
			75 mm

Sample	Test method	Parameter	Results
PVC Kivırcık Paspas	EN ISO 9239-1	Critical flux	9,11 kW/m ²
			9,09 kW/m ²
			9,05 kW/m ²

EN 13501-1 Classification	Flammability Behavior		Smoke
	B _{fi}	-	s1

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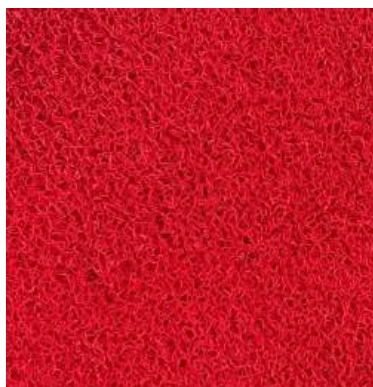
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Sample Image

PVC Kivırcık Paspas



End of Report

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İnönü Mahallesi, Atatürk Bulvarı,
Gebze Güzeller OSB No:22,
41400 Gebze/Kocaeli

(0262) 679 53 00

bilgi@walkmats.com

walkmats.com



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