

Talep-Teklif No: TLF-19-1308 Request-Tender No	ROHS DENEY RAPORU ROHS TEST REPORT	 Test TS EN ISO/IEC 17025 AB-0052-T AB-0052-T R19-087 09-19
Kabul Tarihi:17.09.2019 Receiving Date		
Test Başlangıç Tarihi: 18.09.2019 Test Initiation Date:		
Test Bitiş Tarihi:21.09.2019 Test Final Date:		
Rapor Yayınlanma Tarihi:23.09.2019 Publication Date of the Report:		

❖ **MÜŞTERİ FİRMA- ADRES/ CUSTOMER-ADDRESS**

İŞİL MÜHENDİSLİK MAKİNA VE İNŞAAT SAN. TİC. A.Ş.
KURTKÖY MAH. HIZIR REİS CAD. NO:9/1 PENDİK / İSTANBUL

❖ **NUMUNE İLETİM ŞEKLİ / SAMPLE TRANSMISSION TYPE**

Müşteri tarafından gönderilmiştir.
It was sent by the customer.

❖ **METOD TANIMI / METHOD DESCRIPTION**

Rohs testi 2011/65/EU direktifine göre uygulanmaktadır. (EU 2015/863)
Rohs test was performed according to the 2011/65/EU Directive. (EU 2015/863)

❖ **REFERANS STANDART/ REFERENCE STANDARD**

IEC 62321 - Elektroteknik ürünler- Altı yasaklı maddenin tayini (kurşun, civa, kadmiyum, krom+6, polibrom bifenil, polibrom difenil eter, bis (2-etilheksil) fitalat, butil benzil fitalat, dibutil fitalat, diizobutil fitalat)

Kimyasal Yaş Analiz Yöntem

- ICP-OES ile Kurşun, Kadmiyum ve Civa Tayini
- Kolorimetrik Yöntem ile Krom +6 Tayini
- GC/MS ile PBB ve PBDE Tayini
- GC/MS ile Fitalat Tayini

IEC 62321-Electrotechnical products-Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers, bis (2-ethylhexyl) phthalate, butyl benzyl phthalate, dibutyl phthalate, diisobutyl phthalate)

Wet Chemical Test Method

- Determination of Lead, Cadmium and Mercury by ICP-OES
- Determination of Hexavalent Chromium by Colorimetric Method
- Determination of PBBs and PBDEs by GC/MS
- Determination of Phthalates by GC/MS

❖ **NUMUNE TANIMI - NUMUNE NO/ SAMPLE IDENTIFICATION - SAMPLE NO**

Numune İsmi / Sample Name : Flexiva Sky Sleeve
Numune No / Sample No: R19-087-1

❖ **NUMUNE SAYISI/ SAMPLE QUANTITY**

1 Adet / 1 Piece

NA: Uygulanamaz/Not applicable

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❖ TEST SONUÇLARI/ TEST RESULTS

Parça No/ Part No	Parça Adı/ Part Name	Test edilen kısım/ Test Unit	Kimyasal Yaş Analiz Sonuçları(mg/kg)(Ölçüm Belirsizlikleri) Result of Wet Chemical Testing (mg/kg)(Measurement Uncertainty)										Sonuç (Geçti/ Kaldı)/ Result (Pass/Fail)
			Cd	Hg	Pb	Cr+6	PBBs	PBDEs	DEHP	BBP	DBP	DIBP	
1	Flexiva Sky Sleeve	Yalıtım Malzemesi	<0,1 (±NA)	<0,5 (±NA)	<0,5 (±NA)	<0,05 (±NA)	<100 (±NA)	<100 (±NA)	<50 (±NA)	<50 (±NA)	<50 (±NA)	<50 (±NA)	Geçti / Pass
2		Cam Yünü	<0,1 (±NA)	<0,5 (±NA)	<0,5 (±NA)	<0,05 (±NA)	<100 (±NA)	<100 (±NA)	<50 (±NA)	<50 (±NA)	<50 (±NA)	<50 (±NA)	Geçti / Pass

NA: Uygulanamaz/ Not Applicable

ND: Dedekte edilemez/ Not Detected

Mg/kg: ppm

❖ UYGUNLUK BEYANI /DECLARATION OF CONFORMITY

Uygunluk beyanı karar kuralı 2 göre verilmektedir.

Not: Müşteri tarafından aksi belirtilmediği sürece kural 2 uygulanır.

Declaration of conformity decision rule 2 are provided.

Note:Rule 2 applies unless otherwise specified by the customer.

❖ LİMİTLER/ LIMITS

Parametreler/ Parameters	Limit / Limit
Kadmium/ Cadmium	0,01 % (100 ppm)
Krom VI (metal olmayan malzeme)/ Chromium VI (for non metal)	0,1 % (1000 ppm)
Krom VI (metallerde)/ Chromium VI (for metal)	0,1 % (1000 ppm)
Kurşun / Lead	0,1 % (1000 ppm)
Civa / Mercury	0,1 % (1000 ppm)
Polibrominated Bifenil (PBB) / Polybrominated Biphenyl (PBB)	0,1 % (1000 ppm)
Polibrominated Difenil Eter (PBDE) / Polybrominated Diphenyl Ethers (PBDE)	0,1 % (1000 ppm)
Bis(2-etilheksil) fitalat (DEHP) / Bis (2-ethylhexyl) phthalate (DEHP)	0,1 % (1000 ppm)
Butil benzil fitalat (BBP) / Butyl benzyl phthalate (BBP)	0,1 % (1000 ppm)
Dibutil fitalat (DBP) / Dibutyl phthalate (DBP)	0,1 % (1000 ppm)
Diizobutil fitalat (DIBP) / Diisobutyl phthalate (DIBP)	0,1 % (1000 ppm)

Parametreler/ Parameters	Test Metodu/ Test Methods	Tayin Limiti/ Dedection Limit
Kadmium/ Cadmium	IEC 62321-5:Asit digestion - ICP-OES IEC 62321-5:Acid digestion - ICP-OES	0,1 ppm
Krom VI (metal olmayan malzeme)/ Chromium VI (for non metal)	IEC 62321-7-2:Alkali digestion - UV/VIS IEC 62321-7-2:Alkaline digestion - UV/VIS	0,05 ppm
Krom VI (metallerde) Chromium VI (for metal)	IEC 62321-7-1:Kaynar su ekstraksiyonu - UV/VIS IEC 62321-7-1:Boiling water extraction - UV/VIS	0,05 mg/kg 50cm ²
Kurşun / Lead	IEC 62321-5:Asit digestion - ICP-OES IEC 62321-5:Acid digestion - ICP-OES	0,5 ppm

NA: Uygulanamaz/Not applicable

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Civa / Mercury	IEC 62321-4:Asit digestion - ICP-OES IEC 62321-4:Acid digestion - ICP-OES	0,5 ppm
Polibrominated Bifenil (PBB) / Polybrominated Biphenyl (PBB)	IEC 62321-6:Solvent ekstraksiyon – GC/MS IEC 62321-6:Solvent extraction - GC/MS	100 ppm
Polibrominated Difenil Eter (PBDE) / Polybrominated Diphenyl Ethers (PBDE)	IEC 62321-6:Solvent ekstraksiyon – GC/MS IEC 62321-6:Solvent extraction - GC/MS	100 ppm
Bis(2-etilheksil) ftalat (DEHP) / Bis (2-ethylhexyl) phthalate (DEHP)	IEC 62321-8:Solvent ekstraksiyon-GC-MS IEC 62321-8:Solvent extraction - GC/MS	50 ppm
Butil benzil ftalat (BBP) / Butyl benzyl phthalate (BBP)	IEC 62321-8:Solvent ekstraksiyon-GC-MS IEC 62321-8:Solvent extraction - GC/MS	50 ppm
Dibutyl ftalat (DBP) / Dibutyl phthalate (DBP)	IEC 62321-8:Solvent ekstraksiyon-GC-MS IEC 62321-8:Solvent extraction - GC/MS	50 ppm
Diizobutil ftalat (DIBP) / Diisobutyl phthalate (DIBP)	IEC 62321-8:Solvent ekstraksiyon-GC-MS IEC 62321-8:Solvent extraction - GC/MS	50 ppm

❖ **SAPMALAR/ DEVIATIONS**

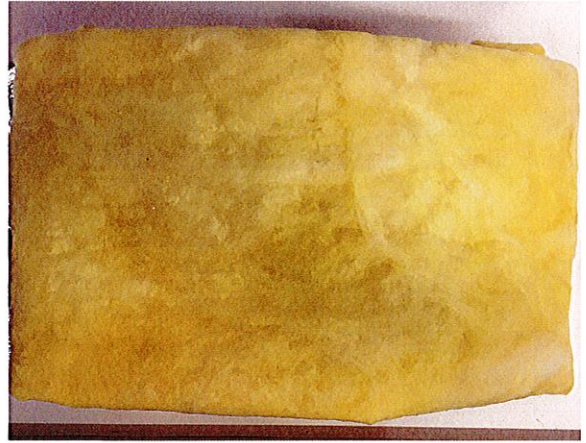
NA

❖ **NUMUNE FOTOĞRAFI/ SAMPLE PICTURE**

Yalıtım Malzemesi



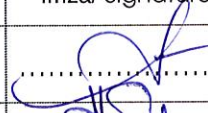
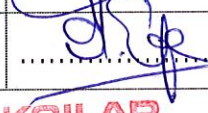
Cam Yünü



❖ **REVİZYON TARİHÇESİ/ REVISION HISTORY**

Rev No – Tarih Rev No - Date	Revizyon Nedeni Revision Reason
00 –	Yeni Yayın

❖ ONAYLAR/ APPROVALS

	İsim/ Name	İmza/ Signature	Tarih/ Date
Laboratuvar Onayı / Laboratory Approval:	Aysel YILDIRIM KİMYAGER		23.09.19
Kalite onay / Quality Approval:	Özenç EFE ÖZTÜRK KİMYAGER		23.09.19
Mühür/Seal			

Test sonuçları bu test raporunda tanımlanan ve test edilen numuneler için geçerlidir.
Bu rapor Bıçakcılar Laboratuvarının yazılı onayı olmadan kısmen kopyalanamaz.
İmzasız ve mühürsüz raporlar geçersizdir.

Test results are valid only for the tested samples identified in this test report
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