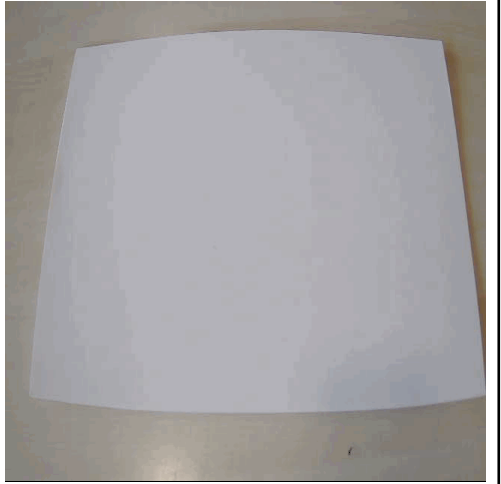


Rapor No/ Report No: FS2110017174	Yayımlandığı Tarih/ Date: 01/11/2021	
Analizin Amacı/ Purpose of Analysis: -		
Müşteri Bilgileri / Customer Information		
Müşteri Adı / Customer Name	Met Kağıtçılık San.ve Tic.A.Ş.	
Adres / Address	Selimpaşa Ortaköy Mh., Yeldeğirmeni Cd. No:11, Silivri, İstanbul, TURKEY,	
Numune Bilgileri / Sample Information		
Adı / Name	PE(Polietilen) ile lamine edilmiş kağıt/karton - Paperboard / Cardboard Laminated with PE (Polyethylene)	Numunenin Fotoğrafi / Sample Photo 
Üretici Adı / Producer Name	Met Kağıtçılık San. ve Tic.A.Ş / Metpack	
Tanımı ve Seri - Parti No / Description and Batch Number	3255-3012	
Üretim ve Son Kullanma Tarihi / Production & Expiry Date	16.09.2021	
Ambalajı ve Miktarı / Package and Quantity	1x kilitli poşet / zipped package	
İlgili Kişi / Contact Person	Cihan Üstündaş [cihanustundas@arasgrup.com.tr]	
Numune kabul tarihi / Sample received / transport by	14/10/2021 kargo / parcel services	
Numune alım sıcaklığı / Sample temp when received		
Numuneyi teslim alan ve mühür / Submitted by & Seal	Müşteri Mühürsüz / Client None/	
Teklif No / Quotation No	4349R1	
Analiz başlama ve bitiş zamanı / Start / End of analysis	14.10.2021 / 01.11.2021	
Açıklamalar / Remarks		

Özgür Can Feridun
Numune Kabul ve
Raporlama Birim
Sorumlusu /
**Supervisor of
Sample Receiving
and Reporting
Section**

Ecem Paşahan Omur
Ambalaj Analiz Birim
Sorumlusu v. /
**Supervisor of Food
Contact Materials
Analysis Section**




01/11/2021

Tasdik Olunur / **Approved by**
Laboratuvar Müdürü / **Laboratory Manager**
Çiğdem Kalın Vatansver



Bu analiz raporu adli -idari işlemlerde ve reklam amacıyla kullanılamaz. Bu analiz raporunun hiçbir bölümü laboratuvarın yazılı izni olmadan kısmen kopyalanıp, çoğaltılamaz, tek başına veya ayrı ayrı kullanılamaz. Müşteri bilgileri ve numune bilgileri müşteri tarafından sağlanmıştır. Bilginin müşteri tarafından sağlandığı durumlar hariç, raporda verilen tüm bilgilerden laboratuvarımız sorumludur. Bu rapor (üst yazı ve ekler dahil), müşteri tarafından sağlanan numuneye ait tanım, talimat, bilgi, materyal ve/veya koşullar temelinde raporda belirtilen müşterinin talebine uygun olarak münhasır kullanımı için hazırlanmıştır. Analiz sonuçları yukarıda belirtilen numune için geçerlidir. İmzasız ve mühürsüz raporlar geçersizdir.

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Rapor No/ **Report No:** FS2110017174

Yayımlandığı Tarih/ **Date:** 01/11/2021

Analizler / **Analyses**

No	Analiz Adı Analysis Name	Sonuç Results	Ölçüm Limiti LOQ	Geri Kazanım Recovery	Ölçüm Belirsizliği Uncertainty	Metot Method	Limit Requirement	Değerlendirme Interpretation
1	Primer Aromatik Aminlerin Spesifik Migrasyonu Tayini Determination of Migration of Primary Aromatic Amines.	Sonuçlar ektedir / The results are attached	-	-	-	Intertek Harmonized SOP C026.TP Issue 3	= ektedir / as attached a	Uygun : Pass

LOQ: Ölçüm Limiti / **Limit of Quantification** LOD: Tespit Limiti / **Limit of Detection**

Bazı analizler Ar-Ge amaçlı olarak çalışılmakta ve sonuçlandırılmaktadır. / **Some analyses are performed and resulted for R-D purposes in scope of private demand.**

(±) k=2 , % 95 güven aralığında genişletilmiş ölçüm belirsizliği, numune alma belirsizliği içermeyecek şekilde hesaplanmıştır. Aksi belirtilmediği sürece analiz değerlendirilmesinde Paylaşılan Risk Karar Kuralı (Basit Kabul Kuralı) uygulanır. Farklı karar kuralı uygulanan değerlendirmeler uygunluk notu olarak belirtilmiştir. / **The reported which is not contain sampling uncertainty value uncertainty is an expanded uncertainty calculated using a coverage factor of 2 which gives a level of confidence of approximately 95%. Unless otherwise specified, the results are evaluated according to Shared Risk Decision Rule (Simple Acceptance Rule). Other evaluation rules which are applied, indicated as interpretation comment.**

^a Türk Gıda Kodeksi Gıda ile Temas Eden Madde ve Malzemeler Tebliği 2019/44 ve Commission Regulation EU No:10/2011- EU 2020/1245 e göre değerlendirme yapılmıştır.
/ Analyses results were interpreted according to Turkish Food Codex Food Contact Matter and Material Communique 2019/44 and Commission Regulation EU No: 10/2011, amendment EU 2020/1245.

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01/11/2021

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Laboratuvar Müdürü / **Laboratory Manager**
Çiğdem Kalın Vatansver



Bu analiz raporu adli -idari işlemlerde ve reklam amacıyla kullanılamaz. Bu analiz raporunun hiçbir bölümü laboratuvarın yazılı izni olmadan kısmen kopyalanıp, çoğaltılamaz, tek başına veya ayrı ayrı kullanılamaz. Müşteri bilgileri ve numune bilgileri müşteri tarafından sağlanmıştır. Bilginin müşteri tarafından sağlandığı durumlar hariç, raporda verilen tüm bilgilerden laboratuvarımız sorumludur. Bu rapor (üst yazı ve ekler dahil), müşteri tarafından sağlanan numuneye ait tanım, talimat, bilgi, materyal ve/veya koşullar temelinde raporda belirtilen müşterinin talebine uygun olarak münhasır kullanımı için hazırlanmıştır. Analiz sonuçları yukarıda belirtilen numune için geçerlidir. İmzasız ve mühürlü raporlar geçersizdir.

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Rapor Sonu / **End of Report**



Specific Migration of Primary Aromatic Amines

As per Commission Regulation (EU) No. 10/2011 and its amendment (EU) 2020/1245, Intertek Harmonized SOP C026.TP Issue 3 By Liquid Chromatograph - Tandem Mass Spectrometry (LC-MS/MS) Analysis.

Test Conditions

Tested component	Food simulant	Time	Temperature (°C)
F2110015084	3% (w/v) acetic acid	2 Hour(s)	70

Ratio of food contact surface area to volume of component used to establish the compliance of material or article	dm ²	mL
	2	150

I. Test result :

No	Compound		1st Migration	2nd Migration	3rd Migration	Detection Limit (mg/kg)	SML - Limit (mg/kg)	Pass/Fail
	Name	Cas No						
A - Azodyes								
1	4-Aminodiphenyl	92-67-1	ND	ND	ND	0.002	ND	Pass
2	Benzidine	92-87-5	ND	ND	ND	0.002	ND	Pass
3	4-Chloro-o-toluidine	95-69-2	ND	ND	ND	0.002	ND	Pass
4	2-Naphthylamine	91-59-8	ND	ND	ND	0.002	ND	Pass
5	o-Aminoazotoluene	97-56-3	ND	ND	ND	0.002	ND	Pass
6	5-Nitro-o-toluidine	99-55-8	ND	ND	ND	0.002	ND	Pass
7	p-Chloraniline	106-47-8	ND	ND	ND	0.002	ND	Pass
8	2,4-Diaminoanisole	615-05-4	ND	ND	ND	0.002	ND	Pass
9	4,4-Diaminodiphenylmethane	101-77-9	ND	ND	ND	0.002	ND	Pass
10	3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	0.002	ND	Pass
11	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	0.002	ND	Pass
12	3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	0.002	ND	Pass
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	ND	ND	ND	0.002	ND	Pass
14	p-Cresidine	120-71-8	ND	ND	ND	0.002	ND	Pass
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	ND	ND	ND	0.002	ND	Pass
16	4,4'-Oxydianiline	101-80-4	ND	ND	ND	0.002	ND	Pass
17	4,4'-Thiodianiline	139-65-1	ND	ND	ND	0.002	ND	Pass
18	o-Toluidine	95-53-4	ND	ND	ND	0.002	ND	Pass
19	2,4-Toluene-diamine	95-80-7	ND	ND	ND	0.002	ND	Pass
20	2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	0.002	ND	Pass
21	2-Methoxyaniline	90-04-0	ND	ND	ND	0.002	ND	Pass
22	4-Aminoazobenzene	60-09-3	ND	ND	ND	0.002	ND	Pass
23	m-Phenylenediamine	108-45-2	ND	ND	ND	0.002	ND	Pass
24	Benzoguanamin	91-76-9	ND	ND	ND	0.002	5	Pass
25	4,4'-Methylenebis(3-chloro-2,6-diethylaniline)	106246-33-7	ND	ND	ND	0.005	0.05	Pass

Remark :

ND = Not detected

As per client's request, the above condition and food simulant were used for the test.



Total Quality. Assured.
Specific Migration of Primary Aromatic Amines

Rapor No: FS2110015084

As per Commission Regulation (EU) No. 10/2011 and its amendment (EU) 2020/1245, Intertek Harmonized SOP C026.TP Issue 3 By Liquid Chromatograph - Tandem Mass Spectrometry (LC-MS/MS) Analysis.

Test Conditions

Tested component	Food simulant	Time	Temperature (°C)
F2110015084	3% (w/v) acetic acid	2 Hour(s)	70

Ratio of food contact surface area to volume of component used to establish the compliance of material or article	dm ²	mL
	2	150

No	Compound		1st Migration	2nd Migration	3rd Migration	Detection Limit (mg/kg)	SML - Limit (mg/kg)	Pass/Fail
	Name	Cas No						
B- Others: EU 10/2011 PAA List								
26	p-Phenyldiamine	106-50-3	ND	ND	ND	0.005	0.01	Pass
27	Aniline	62-53-3	ND	ND	ND	0.005		
28	2,4-Xylidine	95-68-1	ND	ND	ND	0.005		
29	2,6-Xylidine	87-62-7	ND	ND	ND	0.005		
30	3-Methoxyaniline	536-90-3	ND	ND	ND	0.005		
31	2,6-Toluene-diamine	823-40-5	ND	ND	ND	0.005		
32	1,5-Diaminonaphthalene	2243-62-1	ND	ND	ND	0.005		
33	4-Ethoxyaniline	156-43-4	ND	ND	ND	0.005		
34	3-Amino-4-methoxybenzanilide	120-35-4	ND	ND	ND	0.005		
35	3-Amino-4-methylbenzamide	19406-86-1	ND	ND	ND	0.005		
36	2-Amino-5-methylbenzoic acid	2941-78-8	ND	ND	ND	0.005		
37	4-Chloro-2-nitroaniline	89-63-4	ND	ND	ND	0.005		
38	2-Aminobenzoic acid butyl ester	7756-96-9	ND	ND	ND	0.005		
39	2,4,5-Trichloroaniline	636-30-6	ND	ND	ND	0.005		
40	2,4-Dichloroaniline	554-00-7	ND	ND	ND	0.005		
41	5-Chloro-o-toluidine	95-79-4	ND	ND	ND	0.005		
42	o-Phenyldiamine	95-54-5	ND	ND	ND	0.005		
43	m-Chloroanilin	108-42-9	ND	ND	ND	0.005		
44	o-Chloroaniline	95-51-2	ND	ND	ND	0.005		
45	m-Toluidine	108-44-1	ND	ND	ND	0.005		
46	p-Toluidine	106-49-0	ND	ND	ND	0.005		
47	2-Methoxy-4-nitro aniline	97-52-9	ND	ND	ND	0.005		
48	2-Ethoxyaniline	94-70-2	ND	ND	ND	0.005		
49	5-Chloro-2-methoxyaniline	95-03-4	ND	ND	ND	0.005		
50	4-Chloro-3-methoxyaniline	13726-14-2	ND	ND	ND	0.005		
51	5-Amino-6-methyl-1,3-dihydrobenzimidazol-2-one	67014-36-2	ND	ND	ND	0.005		
52	p-Aminobenzamide	2835-68-9	ND	ND	ND	0.005		
53	2,5-Dichloroaniline	95-82-9	ND	ND	ND	0.005		
54	2-Chloro-4-nitroaniline	121-87-9	ND	ND	ND	0.005		
55	2,5-Dimethoxy-4-chloroaniline	6358-64-1	ND	ND	ND	0.005		
56	2,4-Dinitroaniline	97-02-9	ND	ND	ND	0.005		
57	4-Aminotoluene-3-sulfonic acid	88-44-8	ND	ND	ND	0.005		
58	2-Aminobiphenyl	90-41-5	ND	ND	ND	0.005		
59	Dimethyl-2-aminoterephthalate	5372-81-6	ND	ND	ND	0.005		
60	2-Amino-1-naphthalenesulfonic acid	81-16-3	ND	ND	ND	0.005		
61	2-Methyl-4-nitroaniline	99-52-5	ND	ND	ND	0.005		
62	2-Nitroaniline	88-74-4	ND	ND	ND	0.005		

Remark :

ND = Not detected

As per client's request, the above condition and food simulant were used for the test.

Conclusion:

Tested Sample

Tested component(s) of submitted sample(s)