

## TEST REPORT

Job No./Report No TR1837934-RV1 Date: 25 December 2020

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### EAE TEKNOLOJİ ARAŞTIRMA VE GELİŞTİRME SAN. VE TİC. A.Ş.

İkitelli OSB Ziya Gökalp Mah. Eski Turgut Özal Cad. No:20 Başakşehir / İSTANBUL  
TEL: 0531 777 52 76

#### To the attention of Burcu Özsoy

The following sample(s) was /were submitted and identified by/on behalf of the clients as:

Sample Submitted By : EAE TEKNOLOJİ ARAŞTIRMA VE GELİŞTİRME SAN. VE TİC. A.Ş.  
Sample Description : See the following page.  
Model No. : MN-B-FB1, MN-B-FB1+1, MN-B-FB1+2, MN-B-FB2, MN-B-FE1, MN-B-FE2, MN-B-FE3, MN-B-FE4, MN-B-FE5, MN-B-FMB1X2M, MN-B-FMB2X2M, MN-B-FMB3X2M, MN-B-FME1X2M, MN-B-FME2X2M, MN-B-FME3X2M, MN-B-FME4X2M, MN-B-FME5X2M, MN-B-FMI2, MN-B-FMI3, MN-B-FMI4, MN-B-FMI6, MN-X-FB1, MN-X-FB1+1, MN-X-FB1+2, MN-X-FB2, MN-X-FE1, MN-X-FE2, MN-X-FE3, MN-X-FE4, MN-X-FE5, MN-X-FMB1X2M, MN-X-FMB2X2M, MN-X-FMB3X2M, MN-X-FME1X2M, MN-X-FME2X2M, MN-X-FME3X2M, MN-X-FME4X2M, MN-X-FME5X2M, MN-X-FMI2, MN-X-FMI3, MN-X-FMI4, MN-X-FMI4, INT-RCF1-01, INT-RCF1-0X, INT-RCF2-01, INT-RCF2-0X, INT-RCF3-01, INT-RCF3-0X, INT-RCF4-01, INT-RCF4-0X, INT-RCF5-01, INT-RCF5-0X

Sample Receiving Date : 1 December 2020  
Resubmit Date : 25 December 2020  
Testing Period : 1 December 2020 ~ 15 December 2020  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s)  
Test Result(s) : Please refer to next page(s)

Conclusion : Based on the performed tests on selected part of submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days"

In this Test Report tests marked (1) are included in the TÜRKAK Accreditation Scope of this Laboratory.

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The test results relate to the tested items only.  
Test reports without SGS seal and authorized signatures are invalid.  
Reported results do not include uncertainties.

**IN THIS REVISED-1 REPORT, MODEL NO WERE CHANGED BY THE REQUEST OF THE APPLICANT.**

**THIS REPORT SUPERSEDES OUR REPORT NO: TR1837934 DATED 15.12.2020**

Issued in Istanbul  
Signed for and on behalf of  
SGS Supervise Gözetme Etüd  
Kontrol Servisleri A.Ş.

Mert Kurtuluş  
Customer Services Supervisor

Bora Şirinbilek  
Hardline & CPCH Testing Services Manager



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**Test Part Description:**
**CONCLUSION**

<b>1</b>	<b>Plug MN-B-FE / MN-X-FE</b>	
1.1	Transparent white Glass Front main	<b>PASS</b>
1.2	White Plastic Front main	<b>PASS</b>
1.3	Black Plastic Middle main	<b>PASS</b>
1.4	Transparent black Glass Front main	<b>PASS</b>
1.5	Black Plastic Front main	<b>PASS</b>
1.6	Black Plastic Middle main	<b>PASS</b>

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Test Item(s):	RESULTS		
	1.1	1.2	1.3
Cadmium(Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (µg/cm <sup>2</sup> ) (for metal)	NA	NA	NA
Flame Retardants			
<b>Sum of PBBs</b>	<b>NA</b>	<b>ND</b>	<b>ND</b>
Monobromobiphenyl	NA	ND	ND
Dibromobiphenyl	NA	ND	ND
Tribromobiphenyl	NA	ND	ND
Tetrabromobiphenyl	NA	ND	ND
Pentabromobiphenyl	NA	ND	ND
Hexabromobiphenyl	NA	ND	ND
Heptabromobiphenyl	NA	ND	ND
Octabromobiphenyl	NA	ND	ND
Nonabromobiphenyl	NA	ND	ND
Decabromobiphenyl	NA	ND	ND
<b>Sum of PBDEs</b>	<b>NA</b>	<b>ND</b>	<b>ND</b>
Monobromodiphenyl ether	NA	ND	ND
Dibromodiphenyl ether	NA	ND	ND
Tribromodiphenyl ether	NA	ND	ND
Tetrabromodiphenyl ether	NA	ND	ND
Pentabromodiphenyl ether	NA	ND	ND
Hexabromodiphenyl ether	NA	ND	ND
Heptabromodiphenyl ether	NA	ND	ND
Octabromodiphenyl ether	NA	ND	ND
Nonabromodiphenyl ether	NA	ND	ND
Decabromodiphenyl ether	NA	ND	ND
<b>Phthalates</b>			
Dibutyl phthalate (DBP)	NA	ND	ND
Butyl benzyl phthalate (BBP)	NA	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	NA	ND	ND
Diisobutyl Phthalates (DIBP)	NA	ND	ND

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	µg/cm <sup>2</sup> = Microgram per square centimeter		
	mg/kg with 50 cm <sup>2</sup> = Milligram per kilogram with 50 square centimetre		
	ND = Not detected (<MDL)	NA = Not applicable	NR = Not requested
	MDL = Method Detection Limit		

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<b>Test Item(s):</b>	<b>RESULTS</b>		
	<b>1.4</b>	<b>1.5</b>	<b>1.6</b>
Cadmium(Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (µg/cm <sup>2</sup> ) (for metal)	NA	NA	NA
Flame Retardants			
<b>Sum of PBBs</b>	<b>NA</b>	<b>ND</b>	<b>ND</b>
Monobromobiphenyl	NA	ND	ND
Dibromobiphenyl	NA	ND	ND
Tribromobiphenyl	NA	ND	ND
Tetrabromobiphenyl	NA	ND	ND
Pentabromobiphenyl	NA	ND	ND
Hexabromobiphenyl	NA	ND	ND
Heptabromobiphenyl	NA	ND	ND
Octabromobiphenyl	NA	ND	ND
Nonabromobiphenyl	NA	ND	ND
Decabromobiphenyl	NA	ND	ND
<b>Sum of PBDEs</b>	<b>NA</b>	<b>ND</b>	<b>ND</b>
Monobromodiphenyl ether	NA	ND	ND
Dibromodiphenyl ether	NA	ND	ND
Tribromodiphenyl ether	NA	ND	ND
Tetrabromodiphenyl ether	NA	ND	ND
Pentabromodiphenyl ether	NA	ND	ND
Hexabromodiphenyl ether	NA	ND	ND
Heptabromodiphenyl ether	NA	ND	ND
Octabromodiphenyl ether	NA	ND	ND
Nonabromodiphenyl ether	NA	ND	ND
Decabromodiphenyl ether	NA	ND	ND
<b>Phthalates</b>			
Dibutyl phthalate (DBP)	NA	ND	ND
Butyl benzyl phthalate (BBP)	NA	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	NA	ND	ND
Diisobutyl Phthalates (DIBP)	NA	ND	ND

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	µg/cm <sup>2</sup> = Microgram per square centimeter		
	mg/kg with 50 cm <sup>2</sup> = Milligram per kilogram with 50 square centimetre		
	ND = Not detected (<MDL)	NA = Not applicable	NR = Not requested
	MDL = Method Detection Limit		

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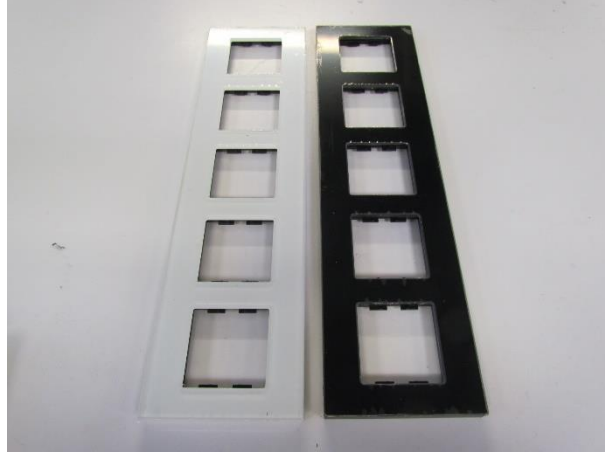
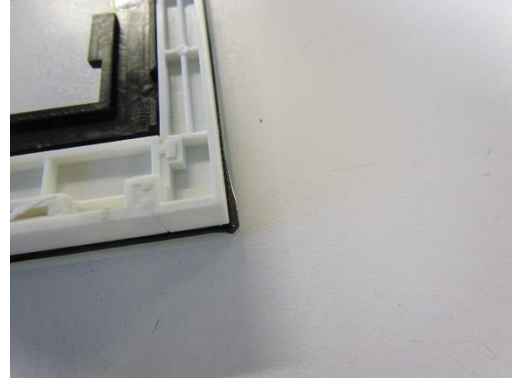
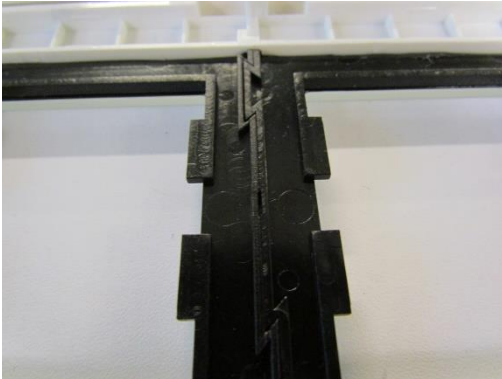
SUBSTANCE	LIMITS	
Cadmium (Cd)Content	0.01 % (100 ppm)	
Chromium VI (Cr+6)Content(ppm)(for non metal)	0.1 % (1000 ppm)	
Chromium VI (Cr+6)Content( $\mu\text{g}/\text{cm}^2$ )for metal)	Colorimetric result < 0.10 $\mu\text{g}/\text{cm}^2$ $\geq 0.10 \mu\text{g}/\text{cm}^2$ and $\leq 0.13 \mu\text{g}/\text{cm}^2$ > 0.13 $\mu\text{g}/\text{cm}^2$	Qualitative Result Negative Inconclusive Positive
Lead (Pb) Content	0.1 % (1000 ppm)	
Mercury (Hg) Content	0.1 % (1000 ppm)	
PBB	0.1 % (1000 ppm)	
PBBDE	0.1 % (1000 ppm)	
Dibutyl Phthalate (DBP)	0.1 % (1000 ppm)	
Diethyl Hexyl Phthalate (DEHP)	0.1 % (1000 ppm)	
Benzyl Butyl Phthalate (BBP)	0.1 % (1000 ppm)	
Diisobutyl Phthalate (DIBP)	0.1 % (1000 ppm)	

Testing Item	Testing Method	MDL
Cadmium (Cd)Content	With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.	2 ppm
Lead (Pb)Content	With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.	2 ppm
Mercury (Hg)Content	With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES.	2 ppm
Chromium VI (Cr6+) (For non-metal)	With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.	8 ppm
Chromium VI (Cr6+) (For metal)	With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.	0.1 $\mu\text{g}/\text{cm}^2$ with 50 $\text{cm}^2$ (IN TESTING SOLUTION)
PBBs/PBDEs	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	5 ppm
Phthalates	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	50 ppm

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- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series  
[http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)
- (2) On 4 June 2015, [Commission Directive \(EU\) 2015/863](#) was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (4) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
- (5) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

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**1****1.1****1.2****1.3****1.4**



## TEST REPORT

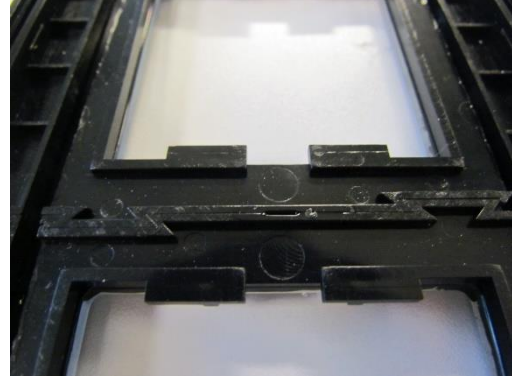
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1.5



1.6



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End of Test Report

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