

TEST REPORT

TEST REPORT NUMBER : TURR170055294

DATE: 31 March, 2017

APPLICANT: Atos Kilit San. Tic. Ltd. Şti.

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SAMPLE DESCRIPTION SEE ATTACHMENT

DATE IN : 27 /March /2017 (08:36)

DATE OUT : 31 /March /2017

REQUEST : RoHS Test was performed according to 2011/65/EU Directive.

RESULTS : SEE ATTACHMENT

CONCLUSION : SEE ATTACHMENT

PRODUCT'S CODE : SEE ATTACHMENT

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Volkan ALBAYRAK
Customer Care Executive



Zeynep AKIN
Chemical Laboratory Manager

PRODUCT'S CODE:

Zamak5	Sheet HRP	Sheet DKP	Lama-Pin
KI01, KI02, KI03, KI05, KI06, KI07, KI09, KI11, KI12, KI15, KI16, KI17, KI18, KI21, KI22, KI25, KI26, KI31, KI32, KI35, KI36, KI41, KI42, KI45, KI46, KI55, KI56, KT01, KT02, KK01, ICT01, ICT02, ILK02, ILK03, ILK04, KM01, KM11, KM05, KM09, KM39, KM55, KA09, KA39, KY30, KY40, KY50, KY60, KY70, AP01, AP03, AP05 ,KD09, KP07, KPDD, KP4DD, KY10, KTDD, KYDD, KY29, KY09, KY19, KY01, KY6D, KY69, MG44, MG03, MG24, MG54, MG04, MG14, MG06, MG16, MG94, MG07, MG08, MG18, MY3040, MY4040, MY5050, MY5063, MY5076, MY6060, MY6076, MY6090, MY60120, MK02, MK20, MK30, MK10, MK16, MK43, MK63, MM04, BK01, BK11,	KI01, KI02, KI03, KI05, KI06, KI07, KI09, KI11, KI12, KI15, KI16, KI17, KI18, KI21, KI22, KI25, KI26, KI31, KI32, KI35, KI36, KI41, KI42, KI45, KI46, KI55, KI56, KT01, KT02, KK01, ILK01, KM01, KM11, KM05, KM09, KM39, KM55, KA09, KA39, KY30, KY40, KY50, KY60, KY70, KD09, KP07, KPDD, KP4DD, KTDD, KYDD, KY29, KY09, KY19, KY01, KY6D, KY69, MG24, MG54, MG04, MG05, MG94, MY6076, MY60106, MY60136, MK30, MM02, MM12,	KI01, KI02, KI05, KI06, KI07, KI09, KI11, KI12, KI15, KI16, KI17, KI18, KI21, KI22, KI25, KI26, KI31, KI32, KI35, KI36, KI41, KI42, KI45, KI46, KI55, KI56, KT01, KT02, KK01, ILK01, SP01, KM01, KM11, KY01, KY6D, KY69, MG01, MG44, MG03, MG24, MG54, MG04, MG05, MG14, MG15, MG35, MG94, MY6076, MY60106, MY60136, MK02, MK20, MK30, MM02, MM12, PM01, PM03, PM09,	KI02, KI03, KI06, KI12, KI16, KI18, KI22, KI26, KI32, KI36, KI42, KI46, KI56, ICS01, ICS18, ICM01, ICM02, ICM03, ICM04, ILM01, ILM11, IPL01, IML01, IKL01, KM01, KM11, PM03, PM09,

PRODUCT'S CODE:

Plastic PA6-GFR	Plastic ABS	Plastic Delrin	Aluminium
KI01, KI02, KI03, KI05, KI06, KI07, KI09, KI11, KI12, KI15, KI16, KI17, KI18, KI21, KI22, KI25, KI26, KI31, KI32, KI35, KI36, KI41, KI42, KI45, KI46, KI55, KI56, KK01, ICM01, ICM02, ICM03, ICM04, ILM01, ILM11, IML01, ICY01, ILY01, ILY02, ILY03, ILK02, AP01, AP02, AP04, TA01, KP02, KPDD, KP4DD, KTDD, KYDD, KY29, KY09, KY69, KP01, KP69, MG17, MY4040, MY4848, MY5050, BK01, BK11, TP01, TP05, TY01, TY05, TK01, TK02,	KS01, KS02, TK09, TK19, HP01, HP02,	MG07, MG17, MG08, MG18, MG09, MG39, MK10, MK43, MK63, MM03,	KT01, KT02, TK02,

PRODUCT'S CODE:

Non Corrossive	Brass	Spring	Pin-Rivet
KI01, KI02, KI05, KI06, KI07, KI09, KI11, KI12, KI15, KI16, KI17, KI18, KI21, KI22, KI25, KI26, KI31, KI32, KI35, KI36, KI41, KI42, KI45, KI46, KI55, KI56, KT01, KT02, KK01, ILM11, KM01, KM11, KM05, KM09, KM39, KM55, PM01, PM02, PM03, KYDD, KY05, KY48, KY78, MG05, MG15, MT01, MK02, MK20, MK30, MY6076, MY60106, MY60136, MM02, MM12, PM03, PM09,	KI01, KI02, KI05, KI06, KI07, KI09, KI11, KI12, KI15, KI16, KI17, KI18, KI21, KI22, KI25, KI26, KI31, KI32, KI35, KI36, KI41, KI42, KI45, KI46, KI55, KI56, KK01, KM01, KM11, KM05, KM09, KM39, KM55, PM01, PM02, PM03, PM04, PM05, PM06, PM07, PM23, PM33, MM01,	KI01, KI02, KI05, KI06, KI07, KI09, KI11, KI12, KI15, KI16, KI17, KI18, KI21, KI22, KI25, KI26, KI31, KI32, KI35, KI36, KI41, KI42, KI45, KI46, KI55, KI56, KK01, KM01, KM11, KM05, KM09, KM39, KM55, KA09, KA39, KY30, KY40, KY50, KY60, KY70, KD09, KP02, KP07, KPDD, KP4DD, KYDD, KY05, KY48, KY78, KTDD, KY29, KY09, KY19, KY01, KY6D, KY69, KS01, KS02, MM30, MM35, MM02, MM12, MM03, MM04,	KI01, KI02, KI03, KI05, KI06, KI07, KI09, KI11, KI12, KI15, KI16, KI17, KI18, KI21, KI22, KI25, KI26, KI31, KI32, KI35, KI36, KI41, KI42, KI45, KI46, KI55, KI56, IPL01, IML01, ILK03, KP02, KP07, MG01, MG44, MG03, MG04, MG24, MG54, MG14, MG05, MG15, MG35, MG09, MG39, MG06, MG16, MG94, MT09, MY6076, MY60106, MY60136, MG07, MG08, MG18, MY3040, MY4040, MY4848, MY5050, MY5063, MY5076, MY6060, MY6076, MY6090, MY60120, MK02, MK20, MK30, MK10, MK16, MK63, MP01, MP02, MP03, MP04, MP05, MP06, MP07, MP23, MP33, MM30, MM35, MM02, MM12,

PRODUCT'S CODE:

Nut	Screw
KI01, KI02, KI03, KI05, KI06, KI07, KI09, KI11, KI12, KI15, KI16, KI17, KI18, KI21, KI22, KI25, KI26, KI31, KI32, KI35, KI36, KI41, KI42, KI45, KI46, KI55, KI56, KK01, ICT01, ICT02, ICY01, ILY01, ILY02, ILY03, KM01, KM11, KM05, KM55, KP07, MG44, MG05, MG17, PM01, PM03,	KI01, KI02, KI03, KI05, KI06, KI07, KI09, KI11, KI12, KI15, KI16, KI17, KI18, KI21, KI22, KI25, KI26, KI31, KI32, KI35, KI36, KI41, KI42, KI45, KI46, KI55, KI56, KT01, KT02, KK01, ICT01, ICT02, KM09, KM39, KA09, KA39, KY30, KY40, KY50, KY60, KY70, KD09, KP02, KP07, KPDD, KY4DD, KY05, KY48, KY78, KY10, KTDD, KYDD, KY29, KY09, KY19, KY01, KY6D, KY69, MG01, MG44, MG03, MG04, MG24, MG54, MG14, MG05, MG15, MG09, MG06, MG16, MG94, MY6076, MY60106, MY60136, MG17, MG07, MY3040, MY4040, MY4848, MY5050, MY5063, MY5076, MY6060, MY6090, MY60120, MK02, MK20, MK30, MK10, MK16, MK43, MK63, MP23, MP33, PM01, PM03,

Part	Description	CONCLUSION
1	Spring	PASS
2	Brass	PASS
3	Black Sheet HRP	PASS
4	Aluminium	PASS
5	Black Plastic Delrin	PASS
6	Plastic PA6-GFR	PASS
7	Black Gudgeon	PASS
8	Plastic ABS	PASS
9	LAMA-BAR	PASS
10	Sheet DKP	PASS
11	Cap Nut	PASS
12	Metal item (ZAMAK5)	PASS
13	Screw	PASS
14	Stainless Metal	PASS
15	White Plastic Delrin	PASS
16	Metal Gudgeon	PASS
17	Metal Sheet HRP	PASS

(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321

TESTING ITEM	RESULT		
	Part		
	1	2	3
Cadmium (Cd) Content	ND	ND	ND
Chromium VI (Cr+6) Content (ppm) (for non metal)	NA	NA	NA
Chromium VI (Cr+6) Content (µg/cm ²) (for metal)	ND	ND	ND
Lead (Pb) Content	ND	18470 ppm*	ND
Mercury (Hg) Content	ND	ND	ND
Flame Retardants			
Polybrominated Biphenyls (PBB)	NA	NA	NA
Monobromobiphenyl (MonoBB)	NA	NA	NA
Dibromobiphenyl (DiBB)	NA	NA	NA
Tribromobiphenyl (TriBB)	NA	NA	NA
Tetrabromobiphenyl (TetraBB)	NA	NA	NA
Pentabromobiphenyl (PentaBB)	NA	NA	NA
Hexabromobiphenyl (HexaBB)	NA	NA	NA
Heptabromobiphenyl (HeptaBB)	NA	NA	NA
Octabromobiphenyl (OctaBB)	NA	NA	NA
Nonabromobiphenyl (NonaBB)	NA	NA	NA
Decabromobiphenyl (DecaBB)	NA	NA	NA
Polybrominated Diphenyl Ethers (PBDE)	NA	NA	NA
Monobromodiphenyl Ether (MonoBDE)	NA	NA	NA
Dibromodiphenyl Ether (DiBDE)	NA	NA	NA
Tribromodiphenyl Ether (TriBDE)	NA	NA	NA
Tetrabromodiphenyl Ether (TetraBDE)	NA	NA	NA
Pentabromodiphenyl Ether (PentaBDE)	NA	NA	NA
Hexabromodiphenyl Ether (HexaBDE)	NA	NA	NA
Heptabromodiphenyl Ether (HeptaBDE)	NA	NA	NA
Octabromodiphenyl Ether (OctaBDE)	NA	NA	NA
Nonabromodiphenyl Ether (NonaBDE)	NA	NA	NA
Decabromodiphenyl Ether (DecaBDE)	NA	NA	NA

Remarks : ppm=Parts per million based on dry weight of sample
 µg/cm²=Microgram per square centimetre
 mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre
 ND =Not detected NA =Not applicable NR =Not requested

* Lead RoHS limit for brass item is 40000 ppm.

(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321

TESTING ITEM	RESULT		
	Part		
	4	5	6
Cadmium (Cd) Content	ND	ND	ND
Chromium VI (Cr+6) Content (ppm) (for non metal)	NA	ND	ND
Chromium VI (Cr+6) Content (µg/cm ²) (for metal)	ND	NA	NA
Lead (Pb) Content	809 ppm	ND	ND
Mercury (Hg) Content	ND	ND	ND
Flame Retardants			
Polybrominated Biphenyls (PBB)	NA	ND	ND
Monobromobiphenyl (MonoBB)	NA	ND	ND
Dibromobiphenyl (DiBB)	NA	ND	ND
Tribromobiphenyl (TriBB)	NA	ND	ND
Tetrabromobiphenyl (TetraBB)	NA	ND	ND
Pentabromobiphenyl (PentaBB)	NA	ND	ND
Hexabromobiphenyl (HexaBB)	NA	ND	ND
Heptabromobiphenyl (HeptaBB)	NA	ND	ND
Octabromobiphenyl (OctaBB)	NA	ND	ND
Nonabromobiphenyl (NonaBB)	NA	ND	ND
Decabromobiphenyl (DecaBB)	NA	ND	ND
Polybrominated Diphenyl Ethers (PBDE)	NA	ND	ND
Monobromodiphenyl Ether (MonoBDE)	NA	ND	ND
Dibromodiphenyl Ether (DiBDE)	NA	ND	ND
Tribromodiphenyl Ether (TriBDE)	NA	ND	ND
Tetrabromodiphenyl Ether (TetraBDE)	NA	ND	ND
Pentabromodiphenyl Ether (PentaBDE)	NA	ND	ND
Hexabromodiphenyl Ether (HexaBDE)	NA	ND	ND
Heptabromodiphenyl Ether (HeptaBDE)	NA	ND	ND
Octabromodiphenyl Ether (OctaBDE)	NA	ND	ND
Nonabromodiphenyl Ether (NonaBDE)	NA	ND	ND
Decabromodiphenyl Ether (DecaBDE)	NA	ND	ND

Remarks : ppm=Parts per million based on dry weight of sample
µg/cm²=Microgram per square centimetre
mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre
ND =Not detected NA =Not applicable NR =Not requested

(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321

TESTING ITEM	RESULT		
	Part		
	7	8	9
Cadmium (Cd) Content	ND	ND	ND
Chromium VI (Cr+6) Content (ppm) (for non metal)	ND	ND	NA
Chromium VI (Cr+6) Content (µg/cm ²) (for metal)	NA	NA	ND
Lead (Pb) Content	ND	ND	ND
Mercury (Hg) Content	ND	ND	ND
Flame Retardants			
Polybrominated Biphenyls (PBB)	ND	ND	NA
Monobromobiphenyl (MonoBB)	ND	ND	NA
Dibromobiphenyl (DiBB)	ND	ND	NA
Tribromobiphenyl (TriBB)	ND	ND	NA
Tetrabromobiphenyl (TetraBB)	ND	ND	NA
Pentabromobiphenyl (PentaBB)	ND	ND	NA
Hexabromobiphenyl (HexaBB)	ND	ND	NA
Heptabromobiphenyl (HeptaBB)	ND	ND	NA
Octabromobiphenyl (OctaBB)	ND	ND	NA
Nonabromobiphenyl (NonaBB)	ND	ND	NA
Decabromobiphenyl (DecaBB)	ND	ND	NA
Polybrominated Diphenyl Ethers (PBDE)	ND	ND	NA
Monobromodiphenyl Ether (MonoBDE)	ND	ND	NA
Dibromodiphenyl Ether (DiBDE)	ND	ND	NA
Tribromodiphenyl Ether (TriBDE)	ND	ND	NA
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND	NA
Pentabromodiphenyl Ether (PentaBDE)	ND	ND	NA
Hexabromodiphenyl Ether (HexaBDE)	ND	ND	NA
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND	NA
Octabromodiphenyl Ether (OctaBDE)	ND	ND	NA
Nonabromodiphenyl Ether (NonaBDE)	ND	ND	NA
Decabromodiphenyl Ether (DecaBDE)	ND	ND	NA

Remarks : ppm=Parts per million based on dry weight of sample
µg/cm²=Microgram per square centimetre
mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre
ND =Not detected NA =Not applicable NR =Not requested

(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321

TESTING ITEM	RESULT		
	Part		
	10	11	12
Cadmium (Cd) Content	ND	ND	ND
Chromium VI (Cr+6) Content (ppm) (for non metal)	NA	NA	NA
Chromium VI (Cr+6) Content (µg/cm ²) (for metal)	ND	ND	ND
Lead (Pb) Content	ND	ND	ND
Mercury (Hg) Content	ND	ND	ND
Flame Retardants			
Polybrominated Biphenyls (PBB)	NA	NA	NA
Monobromobiphenyl (MonoBB)	NA	NA	NA
Dibromobiphenyl (DiBB)	NA	NA	NA
Tribromobiphenyl (TriBB)	NA	NA	NA
Tetrabromobiphenyl (TetraBB)	NA	NA	NA
Pentabromobiphenyl (PentaBB)	NA	NA	NA
Hexabromobiphenyl (HexaBB)	NA	NA	NA
Heptabromobiphenyl (HeptaBB)	NA	NA	NA
Octabromobiphenyl (OctaBB)	NA	NA	NA
Nonabromobiphenyl (NonaBB)	NA	NA	NA
Decabromobiphenyl (DecaBB)	NA	NA	NA
Polybrominated Diphenyl Ethers (PBDE)	NA	NA	NA
Monobromodiphenyl Ether (MonoBDE)	NA	NA	NA
Dibromodiphenyl Ether (DiBDE)	NA	NA	NA
Tribromodiphenyl Ether (TriBDE)	NA	NA	NA
Tetrabromodiphenyl Ether (TetraBDE)	NA	NA	NA
Pentabromodiphenyl Ether (PentaBDE)	NA	NA	NA
Hexabromodiphenyl Ether (HexaBDE)	NA	NA	NA
Heptabromodiphenyl Ether (HeptaBDE)	NA	NA	NA
Octabromodiphenyl Ether (OctaBDE)	NA	NA	NA
Nonabromodiphenyl Ether (NonaBDE)	NA	NA	NA
Decabromodiphenyl Ether (DecaBDE)	NA	NA	NA

Remarks : ppm=Parts per million based on dry weight of sample
 µg/cm²=Microgram per square centimetre
 mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre
 ND =Not detected NA =Not applicable NR =Not requested

(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321

TESTING ITEM	RESULT		
	Part		
	13	14	15
Cadmium (Cd) Content	ND	ND	ND
Chromium VI (Cr+6) Content (ppm) (for non metal)	NA	NA	ND
Chromium VI (Cr+6) Content (µg/cm ²) (for metal)	ND	ND	NA
Lead (Pb) Content	ND	ND	ND
Mercury (Hg) Content	ND	ND	ND
Flame Retardants			
Polybrominated Biphenyls (PBB)	NA	NA	ND
Monobromobiphenyl (MonoBB)	NA	NA	ND
Dibromobiphenyl (DiBB)	NA	NA	ND
Tribromobiphenyl (TriBB)	NA	NA	ND
Tetrabromobiphenyl (TetraBB)	NA	NA	ND
Pentabromobiphenyl (PentaBB)	NA	NA	ND
Hexabromobiphenyl (HexaBB)	NA	NA	ND
Heptabromobiphenyl (HeptaBB)	NA	NA	ND
Octabromobiphenyl (OctaBB)	NA	NA	ND
Nonabromobiphenyl (NonaBB)	NA	NA	ND
Decabromobiphenyl (DecaBB)	NA	NA	ND
Polybrominated Diphenyl Ethers (PBDE)	NA	NA	ND
Monobromodiphenyl Ether (MonoBDE)	NA	NA	ND
Dibromodiphenyl Ether (DiBDE)	NA	NA	ND
Tribromodiphenyl Ether (TriBDE)	NA	NA	ND
Tetrabromodiphenyl Ether (TetraBDE)	NA	NA	ND
Pentabromodiphenyl Ether (PentaBDE)	NA	NA	ND
Hexabromodiphenyl Ether (HexaBDE)	NA	NA	ND
Heptabromodiphenyl Ether (HeptaBDE)	NA	NA	ND
Octabromodiphenyl Ether (OctaBDE)	NA	NA	ND
Nonabromodiphenyl Ether (NonaBDE)	NA	NA	ND
Decabromodiphenyl Ether (DecaBDE)	NA	NA	ND

Remarks : ppm=Parts per million based on dry weight of sample
 µg/cm²=Microgram per square centimetre
 mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre
 ND =Not detected NA =Not applicable NR =Not requested

(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321

TESTING ITEM	RESULT	
	Part	
	16	17
Cadmium (Cd) Content	ND	ND
Chromium VI (Cr+6) Content (ppm) (for non metal)	NA	NA
Chromium VI (Cr+6) Content (µg/cm ²) (for metal)	ND	ND
Lead (Pb) Content	ND	ND
Mercury (Hg) Content	ND	ND
Flame Retardants		
Polybrominated Biphenyls (PBB)	NA	NA
Monobromobiphenyl (MonoBB)	NA	NA
Dibromobiphenyl (DiBB)	NA	NA
Tribromobiphenyl (TriBB)	NA	NA
Tetrabromobiphenyl (TetraBB)	NA	NA
Pentabromobiphenyl (PentaBB)	NA	NA
Hexabromobiphenyl (HexaBB)	NA	NA
Heptabromobiphenyl (HeptaBB)	NA	NA
Octabromobiphenyl (OctaBB)	NA	NA
Nonabromobiphenyl (NonaBB)	NA	NA
Decabromobiphenyl (DecaBB)	NA	NA
Polybrominated Diphenyl Ethers (PBDE)	NA	NA
Monobromodiphenyl Ether (MonoBDE)	NA	NA
Dibromodiphenyl Ether (DiBDE)	NA	NA
Tribromodiphenyl Ether (TriBDE)	NA	NA
Tetrabromodiphenyl Ether (TetraBDE)	NA	NA
Pentabromodiphenyl Ether (PentaBDE)	NA	NA
Hexabromodiphenyl Ether (HexaBDE)	NA	NA
Heptabromodiphenyl Ether (HeptaBDE)	NA	NA
Octabromodiphenyl Ether (OctaBDE)	NA	NA
Nonabromodiphenyl Ether (NonaBDE)	NA	NA
Decabromodiphenyl Ether (DecaBDE)	NA	NA

Remarks : ppm=Parts per million based on dry weight of sample
µg/cm²=Microgram per square centimetre
mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre
ND =Not detected NA =Not applicable NR =Not requested

(B) REQUIREMENT:

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 $< 0.10 \mu\text{g}/\text{cm}^2$ Qualitative Result $\geq 0.10 \mu\text{g}/\text{cm}^2$ and $\leq 0.13 \mu\text{g}/\text{cm}^2$ Negative $> 0.13 \mu\text{g}/\text{cm}^2$ Inconclusive Positive
Lead (Pb) Content	0.1 % (1000 ppm)
Mercury (Hg) Content	0.1 % (1000 ppm)
Flame Retardants	0.1 % (1000 ppm)

(C) TEST METHOD :

Testing Item	Testing Method	Reporting Limit
Cadmium (Cd)Content	With reference to IEC 62321-5:2013,by microwave or acid digestion and determined by ICP-OES	2 ppm
Lead (Pb)Content	With reference to IEC 62321-5:2013,by microwave or acid digestion and determined by ICP-OES	2 ppm
Mercury (Hg)Content	With reference to IEC 62321-4:2013,by microwave or acid digestion and determined by ICP-OES	2 ppm
Chromium VI (Cr6+)(For non-metal)	With reference to IEC 62321:2008,by alkaline digestion and determined by UV-VIS spectrophotometer	1 ppm
Chromium VI (Cr6+)(For metal)	With reference to IEC 62321-7-1:2015 ,by boiling water extraction and determined by UV-VIS spectrophotometer	0.1 mg/kg with 50 cm ² (IN TESTING SOLUTION)
PBBs/PBDEs	With reference to IEC 62321-6:2015,by solvent extraction and determined by GC/MS and HPLC	5 ppm

Part 1



Part 2



Part 3



Part 4



Part 5



Part 6



Part 7



Part 8



Part 9



Part 10



Part 11



Part 12



Part 13



Part 14



Part 15



Part 16



Part 17



##END OF TEST REPORT##

Intertek Test Hizmetleri A.S.

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