

TEST REPORT

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REPORT NUMBER : TURT200019694
APPLICANT NAME : Güler Boru San. ve Tic.A.Ş.
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TURKEY
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Attention : Bahar Temel (uretim@gulermetal.com)
SAMPLE DESCRIPTION : See attachment
DATE IN : 31 January ,2020 (09:21:00)
DATE OUT : 6 February ,2020
MODEL/STYLE NO : 4.76*0.70 - 4.76*0.50 - 4*0.50 - 6*0.70 - 6.35*0.70 -
8*0.70 - 10*0.70 ÇELİK BORU- 4.76*0.70 GALVANİZ KAPLAMALI
ÇELİK BORU
REQUEST. Rohs Directive (EU) 2015/863 amending Annex II to Directive
2011/65/EU
RESULTS: See attachment

PART	DESCRIPTION	CONCLUSION
Sample 1	Metal pipe (Steel Pipe)	Pass
Sample 2	Metal pipe (Galvanized Coated Steel Pipe)	Pass

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(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321

Electrotechnical Products-Determination of Levels of Six Regulated Substances

TESTING ITEM	RESULT	
	Sample 1	Sample 2
	Part	Part
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

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TESTING ITEM	RESULT	
	Sample 1	Sample 2
	Part	Part
Phthalates		
Dibutyl phthalate (DBP) (84-74-2)	NA	NA
Di(2-ethylhexyl) phthalate (DEHP) (117-81-7)	NA	NA
Benzyl butyl phthalate (BBP) (85-68-7)	NA	NA
Diisobutyl Phthalate (DIBP) (84-69-5)	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

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

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(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	Plastic : 2.5 ppm, Metal : 5 ppm, Ceramic : 1.25 ppm
Lead (Pb)Content	With reference to IEC 62321-5:2013,by microwave or acid digestion and determined by ICP-OES	Plastic : 5 ppm, Metal : 10 ppm, Ceramic : 2.5 ppm
Mercury (Hg)Content	With reference to IEC 62321-4:2017,by microwave or acid digestion and determined by ICP-OES	Plastic : 5 ppm, Metal : 10 ppm, Ceramic : 2.5 ppm
Chromium VI (Cr6+) (For non-metal)	With reference to IEC 62321-7-2:2017,by alkaline digestion and determined by UV-VIS spectrophotometer	Plastic : 25 ppm (PVC based) /8.33 ppm (other), Ceramic : 8.33 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
Phthalates	With reference to IEC 62321-8 (111/321/CD), by solvent extraction and determined by GC-MS.	50 ppm

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Sample 1



Sample 2



END OF TEST REPORT