

TEST REPORT

KOTITI NO. : 1414002157-01 R
APPLICANT : Samsung Electro-mechanics Co., Ltd.
ADDRESS : 314, Maetan3-Dong, Yeongtong-Gu, Suwon, Gyeonggi-Do, Korea

DATE IN : December 22, 2014
DATE OUT : January 08, 2015

Sample Description	MLCC A Series
Style Number	N/S
Buyer	N/S
Test Result	For further details, please refer to the following page(s).
Test Method	For further details, please refer to the following page(s).

* N/S : Not Submitted

PREPARED and CHECKED by :



Dr. SANG RAG LEE
 VICE PRESIDENT – KOTITI

AUTHORIZED by :



Dr. YOUNG RYUL KIM
 PRESIDENT – KOTITI

REMARK: SEE ENCLOSED WORKSHEET(S) RESULT

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KOTITI No. : 1414002157-01 R

Sample Description : MLCC A Series

REACH (EC No. 1907/2006), Unit: %				
NO	Substance Name	CAS No.	Test Method	Result
				1
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	With reference to KOTITI In-house method, by solvent extraction and determined by GC-MS Reporting limit: 0.005 %	N.D.
153	Cadmium chloride	10108-64-2	With reference to KOTITI In-house method, by acid digestion and determined by ICP-OES Reporting limit: 0.01%	N.D.
154	Sodium perborate; perboric acid, sodium salt	11138-47-9	With reference to KOTITI In-house method, by acid digestion and determined by ICP-OES Reporting limit: 0.01%	N.D.
155	Sodium peroxometaborate	7632-04-4	With reference to KOTITI In-house method, by acid digestion and determined by ICP-OES Reporting limit: 0.01%	N.D.
156	2-benzotriazol-2-yl-4,6-ditertbutylphenol (UV-320)	3846-71-7	With reference to KOTITI In-House method - Analyzed by ICP-OES, UV/VIS, LC/MS, GC/MS and colorimetric method Reporting limit: 0.05%	N.D.
157	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	With reference to KOTITI In-House method - Analyzed by ICP-OES, UV/VIS, LC/MS, GC/MS and colorimetric method Reporting limit: 0.05%	N.D.
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	With reference to KOTITI In-House method - Analyzed by ICP-OES, UV/VIS, LC/MS, GC/MS and colorimetric method Reporting limit: 0.05%	N.D.
159	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	With reference to KOTITI In-House method - Analyzed by ICP-OES, UV/VIS, LC/MS, GC/MS and colorimetric method Reporting limit: 0.05%	N.D.
160	Cadmium fluoride	7790-79-6	With reference to KOTITI In-House method - Analyzed by ICP-OES, UV/VIS, LC/MS, GC/MS and colorimetric method Reporting limit: 0.005%	N.D.
161	Cadmium sulphate	10124-36-4; 31119-53-6	With reference to KOTITI In-House method - Analyzed by ICP-OES, UV/VIS, LC/MS, GC/MS and colorimetric method Reporting limit: 0.005%	N.D.

Remark

- N.D. = not detected (concentration of analyte lower than the laboratory reporting limit)
- N.A. = not applicable

SAMPLE PICTURE

