

Test Report

No. 3751519-01

Date : 30/MAY/2016

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Jauch Quartz GmbH
 Mr. Stefan Durczok
 In der Lache 24
 78056 VS-Schwenningen
 GERMANY



The following samples were submitted and identified by/on behalf of the client as

SGS Job file : 3751519
 Order date : 06/MAY/2016
 Order number : -
 Sample receiving Date : 11/MAY/2016
 Testing period : 11/MAY/2016 - 30/MAY/2016

Sample No	Sample designation
160479498	MQ1 (UM-1)

Test requested : In accordance with the RoHS Directive 2011/65/EU and subsequent amendments
 Test Method(s) : (1) Determination of Cadmium by ICP-OES, acc. IEC 62321-5:2013
 (2) Determination of Lead by ICP-OES, acc. IEC 62321-5:2013
 (3) Determination of Mercury by CV-AAS, acc. IEC 62321-4:2013
 (4) Determination of Chromium by ICP-OES, acc. IEC 62321-5:2013
 (5) Determination of Chromium (VI) by photometry (metallic samples) or Ion chromatography (plastic and electronic sample material), acc. IEC 62321:2008
Remark: Due to its highly reactive nature the concentration of CrVI in a corrosion-protection changes drastically with time and storage conditions. The results obtained by IEC 62321: 2008, B5 can therefore only give an indication of the presence/absence of Cr(VI) within the limitations of the method at the time of testing. Please refer also to the statement given in IEC 62321: 2008, B1.
 (6) Determination of PBB/PBDE by GC/MS, acc. IEC 62321-6:2015
Remark: Please note that acc. to IEC the testing of metals for PBB/PBDE is gratuitous
 Test Result(s) : Please refer to next page(s)
 Conclusion : Based on the performed tests on submitted sample(s), the test results of Lead, Mercury, Cadmium, hexavalent Chromium **comply with** the limits as set by RoHS Directive 2011/65/EU, Annex 2 and subsequent amendments

Signed for and on behalf of
SGS INSTITUT FRESENIUS GmbH

i.V. 
 Wera Leonhard / hi-cg
 Projektleiterin / Project Manager

i.A. 
 Dr. Nadine Meichsner
 Projektleiterin / Project Manager

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Test results by chemical method (Unit: mg/kg)

Sample No.		160479498			
Test Item(s):	Method (refer to)		RL	RoHS Limit	
Cadmium(Cd)	(1)	n.d.	1	100	
Lead (Pb)	(2)	n.d.	10	1000	
Mercury (Hg)	(3)	n.d.	0,5	1000	
Chromium, hexavalent (Cr(VI))	(5)	n.d.	1	1000	
Sum of PBDEs	(6)	-	-	1000 (Sum of polybrominated diphenyl ether)	
Monobromodiphenyl ether		n.a.	50		
Dibromodiphenyl ether		n.a.	50		
Tribromodiphenyl ether		n.a.	50		
Tetrabromodiphenyl ether		n.a.	50		
Pentabromodiphenyl ether		n.a.	50		
Hexabromodiphenyl ether		n.a.	50		
Heptabromodiphenyl ether		n.a.	50		
Octabromodiphenyl ether		n.a.	50		
Nonabromodiphenyl ether		n.a.	50		
Decabromodiphenyl ether		n.a.	50		
Sum of PBBs		-	-		1000 (Sum of polybrominated biphenyls)
Monobromobiphenyl		n.a.	50		
Dibromobiphenyl	n.a.	50			
Tribromobiphenyl	n.a.	50			
Tetrabromobiphenyl	n.a.	50			
Hexabromobiphenyl	n.a.	50			
Pentabromobiphenyl	n.a.	50			
Heptabromobiphenyl	n.a.	50			
Octabromobiphenyl	n.a.	50			
Nonabromobiphenyl	n.a.	50			
Decabromobiphenyl	n.a.	50			

Note : mg/kg = ppm

n.d.= not Detected

RL = Report Limit

n.a.= not analyzed

**= elevated reporting limit due to matrix interferences

Test Report

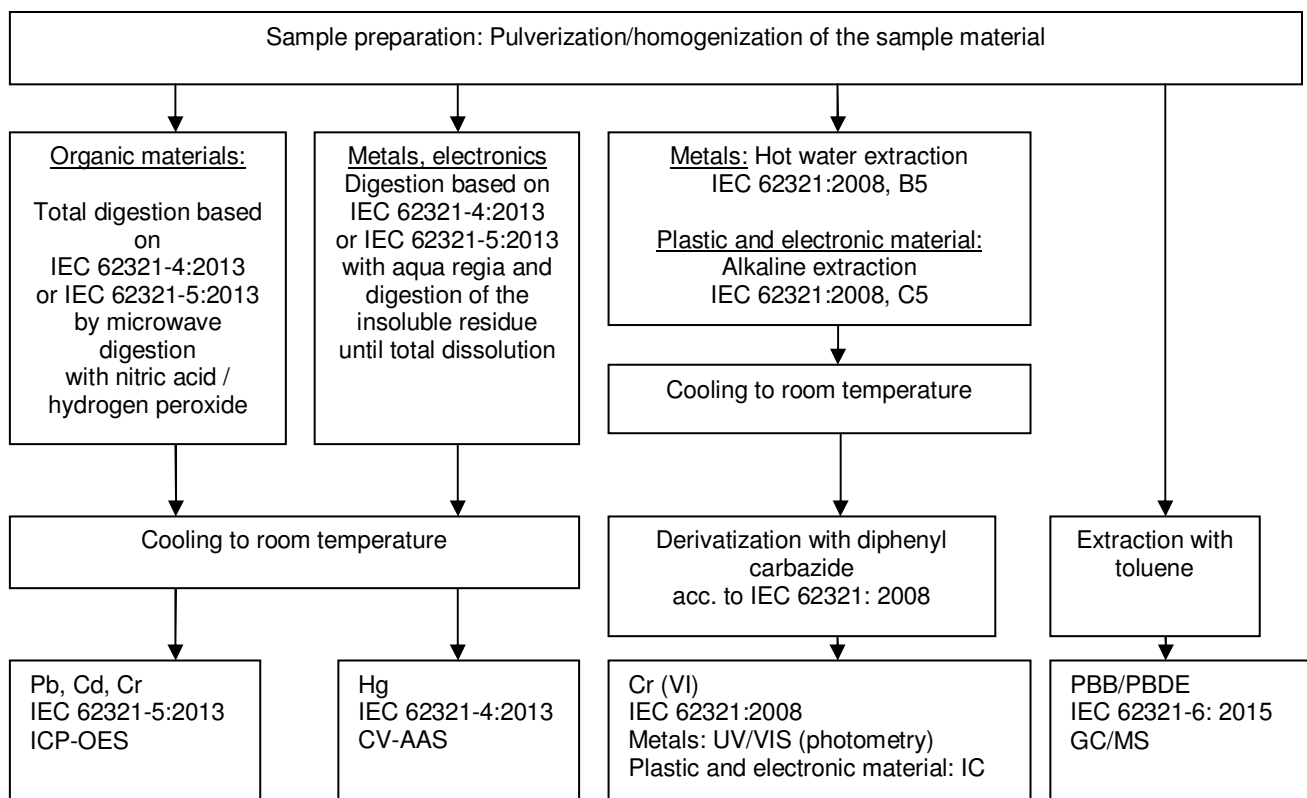
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Flow Chart for the working flow of the performed analysis



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Sample Photo(s)



End of Report