TEST REPORT

Electrotechnical products –
Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)

Report Reference No. ....:	R-174 ROHS 2019 ***Check validity and authenticity of this report on pro-lab.it web site***
Date of issue ....:	14/10/2019
Total number of pages ....:	4
XRF Testing Laboratory ....:	Prolab Service S.r.l.
Address ....:	Via Ratti 82/84 – 20855 Lesmo (MB) - Italy
Chemical Testing Laboratory ....:	None
Address ....:	-
Applicant's name ....:	Fratelli Zucchini SpA
Address ....:	Via Colombo 6, Ferrara
Type of object:	☐ Component / Appliance ☐ Part of appliance ☒ Material
Type of test:	☒ First check ☐ Survey check First report: See General Remarks
Test specification:	
Standard..:	☒ EN 62321-3-1:2014 ☒ XRF screening ☐ Chemical analysis
Directive ....:	☒ 2011/65/UE
Non-standard test method…………..:	☐ Required by applicant.
Result…………………………………..:	☒ Complied ☐ NOT Complied ☐ XRF To investigate
Sample description...........................:	Single-component adhesive sealant
Model..:	MS SUPER (BIANCO/GRIGIO/NERO)

Example of object

Date of receipt of test item ....:	30 September 2019
Date (s) of performance of tests.......:	14 October 2019

Description of sample:

Single-component adhesive sealant

GENERAL REMARKS:

Sampling performed by the manufacturer.
This test report is only for internal use and it is released to provide technical support to the manufacturer.
The test results presented in this report relate only to the object tested.

Test results presented in this report relate only to the sample tested. The sampling of materials was performed by the manufacturer.
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The table annex “XRF Table screening” showed the result of XRF screening on single homogenous material.
Use the following legend to read the “XRF Table screening”:

- Reading No. identification of sample (see photo)
- Units: units measure (% or ppm) referred to mg/kg
- Cd: Cadmium
- Pb: Lead
- Hg: Mercury
- Br: Bromine
- Cr: Chrome
- Yellow highlighted: to be investigated with chemical analysis
- Red: Fail

Consideration of XRF screening.
The XRF test method is used to verify the presence of Pb, Hg, Cd, Cr, Br.
The presence of Cr+6 and PBB or PBDE shall be verified by another test method.

Screening limits in mg/kg for regulated elements in various matrices

Element	Limit of Pass	Range for further investigate	Limit of Fail
Cd	≤ 70 -3σ	70-3σ < Measure < 130+3σ	Measure > 130+3σ
Pb	≤ 700 -3σ	700-3σ < Measure < 1300+3σ	Measure > 1300+3σ
Hg	≤ 700 -3σ	700-3σ < Measure < 1300+3σ	Measure > 1300+3σ
Br	≤ 300 -3σ	Measure > 300-3σ	/
Cr	≤ 700 -3σ	Measure > 700-3σ	/

The lead can be used as element of alloy in the following components:

- steel (up to 0.35% of lead in weight)
- aluminium (up to 0.4% of lead in weight)
- copper (up to 4% of lead in weight)

Photo and colour of material	Reference of xrf analysis
	46
	47
	48

XRF Table Screening

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Part No.	Substances	Measure	Result xrf substance	Note	Conformity Rohs
46	Pb	<LOD	C		Comply
	Cd	0,004 ± 0,001	C		
	Hg	<LOD	C		
	Cr	<LOD	C		
	Br	<LOD	C		
47	Pb	<LOD	C		Comply
	Cd	<LOD	C		
	Hg	<LOD	C		
	Cr	<LOD	C		
	Br	<LOD	C		
48	Pb	<LOD	C		Comply
	Cd	<LOD	C		
	Hg	<LOD	C		
	Cr	58,26 ± 31,37	C		
	Br	<LOD	C		