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THE ITALIAN PULP AND PAPER RESEARCH INSTITUTE  
STAZIONE SPERIMENTALE  
CARTA, CARTONI, E PASTE PER CARTA  
SEDE OPERATIVA:  
Via Giuseppe Colombo, 83  
20133 Milano  
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sales.innovhub@mi.camcom.it  
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LAB N° 0082 L

Customer:

**Fabrika kartona Umka d.o.o.,**  
13. oktobra 1,  
11260 Umka, Srbija

## Test report N°: S-SSCCP-2201652

Issue date: 10/08/2022

Sample declared by the customer: Paper

Your reference: Acceptance of our offer R-SSCCP-220307

Received date: 25/07/2022 Acceptance date: 25/07/2022

Start date of the tests: 28/07/2022 End date of the tests: 10/08/2022

Sampling: provided by the customer

### Information provided by the customer:

Umka Color GD2

Test	Result	U	m.u.
<b>Analytical tests for conformity to DM 21/03/73</b>			
<b>MOISTURE AND VOLATILE MATTER CONTENT</b>			
<i>DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 1</i>			
Moisture	4.89	±0.15	%
<b>ASHES</b>			
<i>DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 2</i>			
Ashes	23.21	±0.17	%
Limit of dry foodstuff ≤ 25 %			
Limit of moist foodstuff ≤ 10 %			
<b>LEAD MIGRATION</b>			
<i>DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 5.3</i>			
<i>+ DM 18/06/1979 GU 180 03/07/1979</i>			
Lead migration	0.55	±0.20	µg/dm <sup>2</sup>
Limit <3 µg/dm <sup>2</sup>			
<b>DETERMINATION OF POLICHLORINATED BIPHENYLS (P.C.B.)</b>			
<i>DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 5.2 + DM 18/06/1979 GU 180 03/07/1979 *</i>			
<i>Analysis executed by Innovhub Oils and Fats Area</i>			
PCB	< 2		ppm

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Test	Result	U	m.u.
Limit $\leq 2$ ppm			

Evaluated by comparison with Aroclor 1221, 1254 and 1260 solutions at the concentration of 2 ppm

#### FIBRE ANALYSIS OF PAPER AND PAPERBOARD. QUALITATIVE TEST

Tappi T 401 om-20 \*

Bleached softwood and hardwood chemical pulp  
Unbleached softwood and hardwood sulphate chemical pulp  
Softwood and hardwood mechanical pulp

#### QUALITATIVE TESTS FOR STARCH, NITROGEN SUBSTANCES, FORMALDHEYDE, ROSIN, WAXES AND PARAFFINS.

MI 01 Rev.1 2004 \*

Starch	present
Nitrogenous substances	present

#### SUBSTANCES SOLUBLE AND PARTIALLY SOLUBLE IN WATER

DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 3a

Substances soluble and partially soluble in water	1.09	$\pm 0.21$	%
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#### AUXILIARY SUBSTANCES SOLUBLE IN ETHANOL-BENZENE MIXTURE (1:2)

DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 3c

Auxiliary substances soluble in ethanol-benzene solvent mixture (1: 2)	0.61	$\pm 0.35$	%
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#### STARCH TOTAL

DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 3a + 3b \*

Total starch	1.5		%
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#### STARCH DISSOLVED (PARTIALLY SOLUBLE)

DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 3a + 3b \*

Soluble starch (partially)	0.19		%
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Test	Result	U	m.u.
<b>QUANTITATIVE SPECIFIC MIGRATION OF FORMALDEHYDE</b>			
<i>DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 2 Met 1 *</i>			
Quantitative specific migration of formaldehyde	<0,05		mg/dm <sup>2</sup>
<b>ROSIN AND TOTAL DERIVATIVES</b>			
<i>DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 3c + 3d *</i>			
Rosin and total derivatives	0.35		%
<b>ROSIN PARTIALLY SOLUBLE IN SOLVENT</b>			
<i>DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 3c + 3d *</i>			
Rosin partially soluble in solvent	0.18		%
<b>TOTAL SOLUBLE OR PARTIALLY SOLUBLE AUXILIARY SUBSTANCE</b>			
<i>(by calculation) *</i>			
Total soluble or partially soluble auxiliary substance	3.18		%
Limit ≤10%			
<b>TOTAL AUXILIARY SUBSTANCES</b>			
<i>(by calculation) *</i>			
Total auxiliary substances	3.6		%
Limit ≤15%			
<b>INSOLUBLE NITROGEN SUBSTANCES</b>			
<i>DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 3e *</i>			
Insoluble nitrogen substances	0.42		%
Limit ≤5%			
<b>FIBROUS MATERIAL</b>			
<i>(by calculation) *</i>			
Fibrous material	73.19		%
Limit of dry foodstuff ≥60%			
Limit of moist foodstuff ≥75%			

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Test	Result	U	m.u.
<b>SENSORY ANALYSIS. OFF-FLAVOUR (TAINT)</b>			
<i>UNI EN 1230-2:2009 *</i>			
N° assessors	11		
Correct answers	10		
Off-flavour intensity	1		
Perceptible difference	YES		
Significance level	5		%

minimum number of answers necessary to conclude that there is a perceptible difference between the test portion for analysis and the test portion of control at different levels of significance: 7

#### TEST CONDITIONS

Extended triangular test  
Test substance used: milk chocolate  
Relative humidity in the vessel: 75%  
Storage: 48 h  
Storage temperature in the dark: 23±2°C  
Sample surface/simulant mass ratio: 7.5 cm<sup>2</sup>/g

#### TAINT INTENSITY SCALE

- 0 = no perceptible off-flavour
- 1 = just perceptible off-flavour (difficult to define)
- 2 = weak off-flavour
- 3 = clear off-flavour
- 4 = strong off-flavour

(\*) Test not accredited by ACCREDIA.

U = expanded uncertainty associated with a test result based on a coverage factor k=2 and a level of confidence of 95%.

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## ATTESTATION OF CONFORMITY

The sample subjected to analysis, limited to the parameters analyzed, meets the requirements for materials and objects in paper and cardboard intended for contact with food for which migration tests are not envisaged (dry foods) in accordance with the provisions of Ministerial Decree 21.3.73 and subsequent amendments.

Laboratory Manager  
Serena Bariselli

for Head Area  
Serena Bariselli

*THE DOCUMENT IS DIGITALLY SIGNED IN ACCORDANCE WITH CURRENT LEGISLATION AND IT REPLACES THE PAPER DOCUMENT AND THE HANDWRITTEN SIGNATURE.*

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