

Rapport d'essais *Test report*

Rouen, le 27 août 2019
CL19-05619
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Produit / Product : BOTTLES FOR FOOD DRINKS
Emetteur / Contact : Alina Manuilina
Commande / Order : Agreement of estimate DC19-04193 rev 1
Reçu le / Received : 02/08/2019
Devis / Price offer : DC19-04193 rev 1

PJSC "Bio med sklo"
26, Promyslova Str.

10025 Zhytomir
UKRAINE

| Tests ou conformité demandés <i>Tests requested / Standards</i> | Conclusion <i>Conclusion</i> |
|--|---------------------------------|
| Verres (dont émail et cristal) : Décret Ministériel Italien du 21 Mars 1973 (Art. 34 et 35) <i>Glasses (with enamel and crystal): Italian Ministerial Decree on 21st March 1973 (Art. 34/35)</i> | Conforme PASS |
| Verre : Fiche MCDA n°2 matériaux inorganiques <i>Glass : inorganic materials file MCDA n°2</i> | Conforme PASS |
| Aptitude au contact alimentaire : Règlement 1935/2004/CE art. 3, décret 2007/766 sur les tests réalisés <i>Food contact compliance : 1935/2004/CE regulation art. 3, 2007/766 Decree on items tested</i> | Conforme PASS |

Les incertitudes de mesure ne sont pas prises en compte pour conclure sur la conformité des analyses sauf demande spécifique du client
Uncertainties are not taken into account to define compliance on analysis except on specific customer request

| | | |
|---|---|---|
| Gilles DOMMERC Expert Technique Chimie-Contact Alimentaire <i>Chemistry-Food contact Technical Expert</i> | Tel. : +33 2 35 07 92 69 Fax : +33 2 35 07 92 62 |  |
|---|---|---|

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Rapport d'essais *Test report*

Description : Bottles for food drinks

Description : Bottles for food drinks

Matériaux au contact : Verre

Foodcontact materials : Glass

Début des essais / *beginning of tests* : 06/08/2019

Fin des essais / *end of tests* : 21/08/2019

Ratio [area (dm²) / volume (ml)] for overall migrations: 2.72dm²/270ml

Lavage de l'article avant test / *pre-wash article before test* :

OUI / YES (selon demande client / *according to client request*) Eau distillée

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Rapport d'essais *Test report*

Migration du Plomb et du Cadmium dans les articles en verre (objet remplissable) - Catégorie 2 (x4 articles) (°)(R)

Lead and Cadmium release in glass items (cat.2) x4 articles (°)(R)

inspiré de ISO 6486-1 -24h 22°C
AAC.4% -Fiche DGCCRF matériaux
inorganiques +dosage ICP/MS

| | | CL19-05619.001 | | |
|---|--------------------------|--|--|--|
| | | SODA LIME GLASS - INTERIOR OF BOTTLE | | |
| | Limites <i>Limits</i> | Résultats <i>Results</i> | | |
| Cadmium (résultat 1) <i>Cadmium (result 1)</i> | < 0,3 mg/l | <0,0025 mg/l | | |
| Cadmium (résultat 2) <i>Cadmium (result 2)</i> | < 0,3 mg/l | <0,0025 mg/l | | |
| Cadmium (résultat 3) <i>Cadmium (result 3)</i> | < 0,3 mg/l | <0,0025 mg/l | | |
| Cadmium (résultat 4) <i>Cadmium (result 4)</i> | < 0,3 mg/l | <0,0025 mg/l | | |
| Plomb (résultat 1) <i>Lead (result 1)</i> | < 4 mg/l | <0,01 mg/l | | |
| Plomb (résultat 2) <i>Lead (result 2)</i> | < 4 mg/l | <0,01 mg/l | | |
| Plomb (résultat 3) <i>Lead (result 3)</i> | < 4 mg/l | <0,01 mg/l | | |
| Plomb (essai 4) <i>Lead (result 4)</i> | < 4 mg/l | <0,01 mg/l | | |
| Conclusion <i>Conclusion</i> | | Conforme <i>Pass</i> | | |

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Migrations spécifiques successives Al, Co et As sur 4 articles

Successive Al, Co, As releases on 4 articles

24h 22°C (x3) AAc.4% - Fiche DGCCRF
matériaux inorganiques + dosage par
ICP/MS

| | | CL19-05619.001 | | |
|---|--------------------------|--|--|--|
| | | SODA LIME GLASS - INTERIOR OF BOTTLE | | |
| | Limites <i>Limits</i> | Résultats <i>Results</i> | | |
| Aluminium - résultat 1 <i>Aluminium result 1</i> | < 1 mg/kg | <0,25 mg/kg | | |
| Aluminium - résultat 2 <i>Aluminium result 2</i> | < 1 mg/kg | <0,25 mg/kg | | |
| Aluminium - résultat 3 <i>Aluminium result 3</i> | < 1 mg/kg | <0,25 mg/kg | | |
| Aluminium - résultat 4 <i>Aluminium result 4</i> | < 1 mg/kg | <0,25 mg/kg | | |
| Cobalt - résultat 1 <i>Cobalt result 1</i> | < 0,02 mg/kg | <0,01 mg/kg | | |
| Cobalt - résultat 2 <i>Cobalt result 2</i> | < 0,02 mg/kg | <0,01 mg/kg | | |
| Cobalt - résultat 3 <i>Cobalt result 3</i> | < 0,02 mg/kg | <0,01 mg/kg | | |
| Cobalt - résultat 4 <i>Cobalt result 4</i> | < 0,02 mg/kg | <0,01 mg/kg | | |
| Arsenic - résultat 1 <i>Arsenic result 1</i> | < 0,002 mg/kg | <0,002 mg/kg | | |
| Arsenic - résultat 2 <i>Arsenic result 2</i> | < 0,002 mg/kg | <0,002 mg/kg | | |
| Arsenic - résultat 3 <i>Arsenic result 3</i> | < 0,002 mg/kg | <0,002 mg/kg | | |
| Arsenic - résultat 4 <i>Arsenic result 4</i> | < 0,002 mg/kg | <0,002 mg/kg | | |
| Conclusion <i>Conclusion</i> | | Conforme <i>Pass</i> | | |

Mesure de migration globale (Méthode : EN 1186)

Overall migration test (Method : EN 1186)

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CL19-05619.002 SODA LIME GLASS - INTERIOR OF BOTTLE

| | Simulant de Migrations successives <i>Simulant</i> | Durée de Migrations successives <i>Successive</i> | Température de Migration <i>Migration Temperature</i> | Résultat moyen (via 3ème essai migrations) | Conclusion sur migration globale <i>Overall</i> |
|---|---|--|--|--|--|
| Migrations globales succ. dans l'eau (Verres Cat. A et/ou B) <i>Successive overall migrations in distilled water</i> | Eau Distillée <i>Distilled</i> | 2h (x3) | 80°C | <1 mg/dm² | Conforme <i>Pass</i> |

NOTE 1 :

Notre conclusion "**Conforme *****", quant aux tests de migration globale, tient compte des tolérances analytiques réglementaires telles,

*Our "Pass ***" conclusion, about overall migration tests, takes into account the standardized analytical tolerances as,*

10 mg/dm² avec une tolérance de 2 mg/dm² pour les simulants aqueux ou 3 mg/dm² pour les simulants gras
10 mg/dm² with 2 mg/dm² tolerance for aqueous simulants or 3 mg/dm² for fatty food simulants

60 mg/kg avec une tolérance de 12 mg/kg pour les simulants aqueux ou 20 mg/kg pour les simulants gras
60 mg/kg with 12 mg/kg tolerance for aqueous simulants or 20 mg/kg for fatty food simulants

NOTE 2 :

L'aptitude au contact alimentaire est établie sous réserve du respect des listes de substances autorisées, à savoir leurs utilisations et leurs spécifications et/ou restrictions le cas échéant, par des réglementations Européennes existantes et celles nationales appliquées pour la fabrication des matériaux au contact.

Food contact compliance is declared subject to European and National authorised substances list respect, i.e. use and specifications and/or limitations for foodcontact materials manufacturing.

*** Fin du rapport ***

*** End of Report ***

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