



IKATES, s.r.o.

Tolstého 186, 415 03 Teplice, Czech Republic

Reg. No.: 25032836

CERTIFICATION PROTOCOL


No. : C – 29/2021


Applicant : Crystalex CZ, s.r.o.
Masarykovo nábřeží 236/30
110 00 Praha 1 – Nové Město, Czech Republic
Reg.No.: 285 42 673

Product name : Utility and beverage glass from crystal glass melt crystallin
(Cristallin), mechanically formed, smooth or decorated.

Producer : CRYSTALEX CZ s.r.o.
Masarykovo nábřeží 236/30
110 00 Praha 1 – Nové Město, Czech Republic
plant Nový Bor, Bedřicha Egermanna 634, 473 13 Nový Bor

Date of issue: 2021-10-01

Protocol was performed by: Lenka Stránská 

Conformity assessment performed by: Lenka Stránská 

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1. INTRODUCTION

Utility and beverage glass crystallin (Cristallin) colorless and colored, smooth or decorated is product used in households or in public consume in contact with consumables.

2. FOUNDATIONS FOR WORKING-OUT OF CERTIFICATION PROTOCOL

- Application for certification No. C-29/2021 from 2021-09-09
- Test reports No. 220/2021 from 2021-08-25, issued by Laboratory for glass and building products testing, laboratory No.1139 , IKATES, s.r.o. Teplice, accredited by CIA, Test reports No. 21/0333 from 2021-03-23, AL(N) 956/2021 from 2021-08-27 a AL(N) 959/2021 from 2021-08-27, issued by Testing laboratory IKATES, s.r.o. Teplice, AZL 1139.2 (analytic laboratory)
- Audit report of technical and organizational conditions in field of production quality assurance from 2020-01-07, 2020-12-16 and 2021-07-14
- Technical documentation of the producer

3. NORMATIVE REFERENCES

Requirements of Regulation (EC) 1935/2004 of the European Parliament and of the Council from 2004-10-27 of materials and articles intended to come into contact with food and repealing of Directives 80/590/EEC and 89/109/EEC including art.15

Regulation of Ministry of Industry and Trade No. 379/2000 Coll. From 2000-10-10 which specifies conditions for determination of individual types of crystal glass, their properties and methods of labelling of crystal glass products –

Council Directive 69/493/EEC of the approximation of the laws of the member states relating to crystal glass.

British Standard BS 3828:1973 Specification for crystal glass

4. OBSERVED PROPERTIES

- leach from product surface (content of lead and cadmium, harmless to health)
- oxides of metals
- density
- refractive index
- labelling



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5. TEST RESULTS AND EVALUATION

5.1 Leach from product surface (content of lead and cadmium, harmless to health)

Goblet Bar-koktejl (cocktail) with optics on the outside sprayed paint Ormoglass LUS undiluted orange 40751/450/D5238– tested in mouth edge area (sample No. 1-4)

Sample No.	Volume of test solution for leach in ml	concentration in leach of lead in mg Pb/article	concentration in leach of cadmium in mg Cd/article
1	190	<0,02	<0,002
2	190	<0,02	<0,002
3	190	<0,02	<0,002
4	190	<0,02	<0,002
average		<0,02	<0,002

In accordance with requirements of the standards ČSN 70 8005, DIN 51 032, ISO 7086-2, BS 6748, GOST 30407 and Ordinance of MH No. 38/2001 Coll., as amended by further legal acts, Annex No.9, Section 1 – including consideration of measurement uncertainty and in accordance with The stated products are in compliance with requirements of Regulation (EC) 1935/2004 of the European Parliament and of the Council from 2004-10-27 of materials and articles intended to come into contact with food and repealing of Directives 80/590/EEC and 89/109/EEC including art.15

5.2 Oxides of metals

Glass from 2021-08-02:

% ZnO: $1,20 \pm 0,10$

% BaO: $7,26 \pm 0,15$

% K₂O: $3,33 \pm 0,10$

In accordance with requirements Regulation of Ministry of Industry and Trade No. 379/2000 Coll. and Council Directive 69/493/EEC.

5.3 Density

Glass from 2021-08-02:

Result (g/cm³): 2,6115

In accordance with requirements Regulation of Ministry of Industry and Trade No. 379/2000 Coll. and Council Directive 69/493/EEC.



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5.4 Refractive index

The prismatic samples of Cristallin glass from lines L5, L8 and L9 with dimensions 10x20x20 mm were supplied for testing.

sample	measurement	measured limit angle (°)	refractive index n _D
L5	1	32,72600	1,52495
	2	32,71083	1,52487
	3	32,72083	1,52492
mean value of refractive index			1,5249
L8	1	32,70733	1,52485
	2	32,70900	1,52486
	3	32,71117	1,52487
mean value of refractive index			1,5249
L9	1	32,74833	1,52507
	2	32,729	1,52497
	3	32,73917	1,52502
mean value of refractive index			1,5250

In accordance with requirements Regulation of Ministry of Industry and Trade No. 379/2000 Coll. and Council Directive 69/493/EEC.

5.5 Labelling

The parameter of labelling was checked by Certification Body during the (FPC) factory production control audit on 2020-01-07, 2020-12-16 and 2021-07-14

In accordance with requirements Regulation of Ministry of Industry and Trade No. 379/2000 Coll. and Council Directive 69/493/EEC.

6. CONCLUSION

The products of the applicant Crystalex CZ, s.r.o., Masarykovo nábřeží 236/30, 110 00 Praha 1 – Nové Město, Czech Republic, plant Nový Bor

- **Utility glass and beverage glass from crystal glass melt crystallin (Cristallin), mechanically formed, smooth or decorated.**

comply

with requirements of Regulation (EC) 1935/2004 of the European Parliament and of the Council from 2004-10-27 of materials and articles intended to come into contact with food and repealing of Directives 80/590/EEC and 89/109/EEC including art.15, the Regulation of Ministry of Industry and Trade No. 379/2000 Coll. From 2000-10-10 which specifies conditions for determination of individual types of crystal glass, their properties and methods of labelling of crystal glass products and the Council Directive 69/493/EEC of the approximation of the laws of the member states relating to crystal glass and British Standard BS 3828:1973 Specification for crystal glass.

