

**TEST REPORT N° FC200143.01****Date:****08/06/2020****Customer**

HALOPOLYMER KIROVO-CHEPETSK, LLC
2 POZHARNY PER. RUSSIA
613040 KIROVO-CHEPETSK KIROV
REGION

Sample ID

Fluoroplast-4D

Sampling

by Customer

Arrival Date

18/05/2020

Start test date

19/05/2020

End test date

04/06/2020

PASS/FAIL

PASS

According to:

Reg. UE 10/2011 and amen



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Date:

08/06/2020

Time: 10 days

Temperature: 60°C

PARAMETER	RESULT	UNCERTAINTY	U.M.	LOQ	LIM	METHOD	LAW REFERENCE	START DATE TEST	END DATE TEST
Overall migration in acetic acid 4% w/V by total immersion - first attack	5,1		mg/dm ²	1	10	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011, BS EN 1186-1:2002, BS EN 1186-3:2002, EN 1186-1:2002, EN 1186-3:2002, UNI EN 1186-1:2003, UNI EN 1186-3:2003	L11	19/05/2020	04/06/2020
Overall migration in ethanol 10% by total immersion - first attack	ND		mg/dm ²	1	10	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011, BS EN 1186-1:2002, BS EN 1186-3:2002, EN 1186-1:2002, EN 1186-3:2002, UNI EN 1186-1:2003, UNI EN 1186-3:2003	L11	19/05/2020	04/06/2020

Time: 10 days

Temperature: 60°C

PARAMETER	RESULT	UNCERTAINTY	U.M.	LOQ	LIM	METHOD	LAW REFERENCE	START DATE TEST	END DATE TEST
Overall migration in olive oil by total immersion - first attack	ND		mg/dm ²	1	10	Reg UE 10/2011 14/01/2011 GU L12/1 15/01/2011 App. V ed emen. + UNI EN 1186-2:2003 (*)	L11	22/05/2020	03/06/2020

Time: 10 days

Temperature: 60°C

PARAMETER	RESULT	UNCERTAINTY	U.M.	LOQ	LIM	METHOD	LAW REFERENCE	START DATE TEST	END DATE TEST
Specific migration of colourings in acetic acid 4%w/v	100		%		>95	DM 21/03/1973 SO GU n°104 20/04/1973 All.4 sez.7 ed emen. (*)	L9	19/05/2020	03/06/2020
Specific migration of colourings in ethanol 10%v/v	100		%		>95	DM 21/03/1973 SO GU n°104 20/04/1973 All.4 sez.7 ed emen. (*)	L9	19/05/2020	03/06/2020
Specific migration of colourings in sunflower oil	100		%		>95	DM 21/03/1973 SO GU n°104 20/04/1973 All.4 sez.7 ed emen. (*)	L9	19/05/2020	03/06/2020

Time: 10 days

Temperature: 60°C

PARAMETER	RESULT	UNCERTAINTY	U.M.	LOQ	LIM	METHOD	LAW REFERENCE	START DATE TEST	END DATE TEST
Specific migration of primary aromatic amines in acetic acid 4% w/V	ND		mg/kg	0,01	0,01	UNI EN 13130-1:2005 + BVL LFGB §64 L 00.00- 6:1995/Cor:2002	L11	19/05/2020	03/06/2020



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PARAMETER	RESULT	UNCERTAINTY	U.M.	LOQ	LIM	METHOD	LAW REFERENCE	START DATE TEST	END DATE TEST
Specific Migration of 9 metals according to Reg. UE 10/2011 Acetic Acid 4%									
Specific migration of aluminium in acetic acid 4%	0,69		mg/kg	0,01	1	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011+ UNI EN 13130-1:2005+UNI EN ISO 11885:2009 (*)	L11	19/05/2020	29/05/2020
Specific migration of barium in acetic acid 4%	0,03		mg/kg	0,01	1	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011+ UNI EN 13130-1:2005+UNI EN ISO 11885:2009 (*)	L11	19/05/2020	29/05/2020
Specific migration of cobalt in acetic acid 4%	ND		mg/kg	0,01	0,05	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011+ UNI EN 13130-1:2005+UNI EN ISO 11885:2009 (*)	L11	19/05/2020	29/05/2020
Specific migration of Copper in acetic acid 4%	0,09		mg/kg	0,01	5	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011+ UNI EN 13130-1:2005+UNI EN ISO 11885:2009 (*)	L11	19/05/2020	29/05/2020
Specific migration of Iron in acetic acid 4%	0,07		mg/kg	0,01	48	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011+ UNI EN 13130-1:2005+UNI EN ISO 11885:2009 (*)	L11	19/05/2020	29/05/2020
Specific migration of manganese in acetic acid 4%	ND		mg/kg	0,01	0,6	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011+ UNI EN 13130-1:2005+UNI EN ISO 11885:2009 (*)	L11	19/05/2020	29/05/2020
Specific migration of nickel in acetic acid 4%	ND		mg/kg	0,01	1	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011+ UNI EN 13130-1:2005+UNI EN ISO 11885:2009 (*)	L11	19/05/2020	29/05/2020
Specific migration of Zinc in acetic acid 4%	0,33		mg/kg	0,01	5	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011+ UNI EN 13130-1:2005+UNI EN ISO 11885:2009 (*)	L11	19/05/2020	29/05/2020
Specific migration of lithium in acetic acid 4%	ND		mg/kg	0,01	0,6	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011+ UNI EN 13130-1:2005+UNI EN ISO 11885:2009 (*)	L11	19/05/2020	29/05/2020

Time: 3 days

Temperature: 20°C

PARAMETER	RESULT	UNCERTAINTY	U.M.	LOQ	LIM	METHOD	LAW REFERENCE	START DATE TEST	END DATE TEST
Specific migration of tetrafluoroethylene _CAS 116-14-3 in isooctane	ND		mg/kg	0,02	0,05	UNI EN 13130-1:2005 + MHTH026 rev.0 2017 (*)	L11	19/05/2020	25/05/2020

PARAMETER	RESULT	UNCERTAINTY	U.M.	LOQ	LIM	METHOD	LAW REFERENCE	START DATE TEST	END DATE TEST
Screening GC/MS of non-volatile substances on ethanol 95%	Note1		mg/kg			MHTH004 rev. 0 2016 (*)	L3	22/05/2020	04/06/2020



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PARAMETER	RESULT	UNCERTAINTY	U.M.	LOQ	LIM	METHOD	LAW REFERENCE	START DATE TEST	END DATE TEST
Evaluation of organoleptic inertia (odour) - No packaging	Note 2					MHTH010 rev.0 2016 deriv UNI 10192:2000 (*)	L3	02/06/2020	03/06/2020
Evaluation of organoleptic inertia (flavour) - No packaging	Note 2					MHTH010 rev.0 2016 deriv UNI 10192:2000 (*)	L3	02/06/2020	03/06/2020

LAW REFERENCE:

L9	DM 21/03/1973 SO GU n°104 20/04/1973 and amen.	L3	Reg. CE 1935/2004
L11	Reg UE 10/2011 and amen.		

NOTE:

(*) Those test are not under the Accreditation scope of our Laboratory.

S/V=0,6

Note1:The GC/MS screening did not show occurrence of harmful substances for human health

Note 2: Performed Condition: 24h, 40°C simulants used: biscuits, white chocolate and butter; all scores equal to 0; there are no alterations and differences in smell and taste.

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Chemical determinations: expanded uncertainty is referred to 95% confidence level. Coverage factor $k=2$.

The limit of determination (LOD) results as $1/10LOQ*3$

N.D= less than LOQ (limit of quantification)

The reported results only refer to the tested sample.

u.m. = unit of measurement; unc = uncertainty;

RIS=Result; Lim=limit

S/V = surface/volume

Authorized by

 Technical Manager
END OF THE REPORT

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