


TEST REPORT N° FC200142.02
Date:
09/06/2020
Customer

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

Sample ID

Fluoroplast-4

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:

GB standards 4806 .1,6 and 7:2016 and GB 9685:2016
and according to technical GB standards series 31604:2015

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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	ND		mg/dm ²	1	10	GB31604.1:2016 + GB31604.8:2016	L75	09/06/2020	09/06/2020
Overall migration in ethanol 10% by total immersion - first attack	ND		mg/dm ²	1	10	GB31604.1:2016 + GB31604.8:2016	L75	09/06/2020	09/06/2020
Overall migration in olive oil by total immersion - first attack	ND		mg/dm ²	1	10	GB31604.1:2016 + GB31604.8:2016 (*)	L75	09/06/2020	09/06/2020

Tempo/Time: 10gg

Temperatura/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	L29	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 metals in Acetic Acid 4%									
Specific migration of aluminium 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 (*)	L29	19/05/2020	29/05/2020
Specific migration of barium 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 (*)	L29	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 (*)	L29	19/05/2020	29/05/2020
Specific migration of Copper in acetic acid 4%	ND		mg/kg		5	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011+ UNI EN 13130-1:2005+UNI EN ISO 11885:2009 (*)	L29	19/05/2020	29/05/2020
Specific migration of Iron in acetic acid 4%	ND		mg/kg		48	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011+ UNI EN 13130-1:2005+UNI EN ISO 11885:2009 (*)	L29	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 (*)	L29	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 (*)	L29	19/05/2020	29/05/2020
Specific migration of Zinc in acetic acid 4%	ND		mg/kg		25	Reg UE 10/2011 14/01/2011 GU UE L12 15/01/2011+ UNI EN 13130-1:2005+UNI EN ISO 11885:2009 (*)	L29	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 (*)	L29	19/05/2020	29/05/2020

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Time: 2 h

Temperature: 60°C

PARAMETER	RESULT	UNCERTAINTY	U.M.	LOQ	LIM	METHOD	LAW REFERENCE	START DATE TEST	END DATE TEST
Specific Migration of metals in Acetic Acid 4% Specific migration of lead in acetic acid 4%	ND		mg/kg	0,1	1	GB 31604.9 (*)	L29	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 (*)	L30	19/05/2020	25/05/2020

Time: 10 days

Temperature: 60°C

PARAMETER	RESULT	UNCERTAINTY	U.M.	LOQ	LIM	METHOD	LAW REFERENCE	START DATE TEST	END DATE TEST
Sensory inspection									
Colour and Luster	Note 3					4806.11 2016 (*)	L75	19/05/2020	03/06/2020
Abnormal odour and dirt	Note 3					4806.11 2016 (*)	L75	19/05/2020	03/06/2020
Soak Solution condition									
Coloration	Note 3					4806.11 2016 (*)	L75	19/05/2020	03/06/2020
Abnormal Odour	Note 3					4806.11 2016 (*)	L75	19/05/2020	03/06/2020
Precipitation	Note 3					4806.11 2016 (*)	L75	19/05/2020	03/06/2020
Turbidity	Note 3					4806.11 2016 (*)	L75	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
Decolorization test	A		P/A			GB31604.7 (*)	L75	19/05/2020	03/06/2020

Time: 2 h

Temperature: 60°C

PARAMETER	RESULT	UNCERTAINTY	U.M.	LOQ	LIM	METHOD	LAW REFERENCE	START DATE TEST	END DATE TEST
Potassium Permanganate Consumption	ND		mg/L	1	10	GB31604.2 (*)	L75	26/05/2020	26/05/2020

Time: 10 days

Temperature: 60°C

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 (*)	L30	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 (*)	L76	02/06/2020	03/06/2020
Evaluation of organoleptic inertia (flavour) - No packaging	Note 2					MHTH010 rev.0 2016 deriv UNI 10192:2000 (*)	L30	02/06/2020	03/06/2020

LAW REFERENCE:

L29	GB 9685 - Appendix C	L76	GB 4806.1-2016
L30	GB 4806.6-2016		
L75	GB 4806.7-2016		

NOTE:

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

P/A: present/absent. Expression of the result for decolorization test

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.

Note 3: At the end of the contact period with the specimens, each simulant:

1. did not show any variation of the colour and the luster;
2. did not show any coloration, precipitation or turbidity
3. did not have any strange odour or dirt.

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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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