

TEST REPORT

REPORT No.: R2YN230325F11917A

Date: March 30, 2023

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CONG TY TNHH SAN XUAT THUONG NGUYEN

上元股份有限公司

Thua dat so 677, To Ban Do so 15, Ap Thanh Hoa, Xa Thanh Hoi, Thi xa Tan Uyen, Tinh Binh Duong

平阳县新渊市社盛会社盛和邑 15 号地图 677 号地块

Report on the submitted samples said to be:

委托检测的样品及申请者对样品的说明如下：

Sample Description	:	PE stretch film
样品描述	:	PE 缠绕膜
Color	:	Colorless
颜色	:	无色透明
Sample Receiving Date	:	March 27, 2023
收样日期	:	2023 年 03 月 27 日
Testing Period	:	From March 27, 2023 to March 29, 2023
测试周期	:	2023 年 03 月 27 日至 2023 年 03 月 29 日
Results	:	Please refer to next page(s).
测试结果	:	参见后续页

Summary of Test Results:

测试结果概要:

TEST REQUEST

测试要求


A RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863
RoHS 指令 2011/65/EU 及其修正指令(EU) 2015/863

CONCLUSION

结论

Pass
合格

Signed for and on behalf of BACL
BACL 授权签名

Checked by 审核: 
Nguyen Thanh Hang

Approved by 核准: 
William Wei

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Result:

测试结果:

Tested part(s):

测试部位:

- (1) Colorless PE (stretch film)
无色 PE (拉伸膜)

A, RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863

RoHS 指令 2011/65/EU 及其修正指令(EU) 2015/863

A.1, Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content

铅, 镉, 汞, 六价铬, 多溴联苯和多溴二苯醚含量

Test method:

测试方法:

Lead & Cadmium Content:

铅&镉含量:

With reference to IEC62321-5:2013, by acid digestion and analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) or Atomic Absorption Spectrometry (AAS).

依据 IEC62321-5:2013, 采用酸消解, 电感耦合等离子体原子发射光谱仪 (ICP-OES) 或原子吸收光谱仪 (AAS) 进行分析。

Mercury Content:

汞含量:

With reference to IEC 62321-4:2013+AMD1:2017, by acid digestion and analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES)

依据 IEC 62321-4:2013+AMD1:2017, 采用酸消解, 电感耦合等离子体原子发射光谱仪 (ICP-OES) 进行分析。

Hexavalent Chromium Content (For non-metal material):

六价铬含量 (非金属材料):

With reference to IEC 62321-7-2:2017, by solvent extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

依据 IEC 62321-7-2:2017, 采用溶剂萃取, 紫外-可见分光光度计 (UV-Vis) 进行分析。

PBBs & PBDEs Content:

多溴联苯和多溴二苯醚含量:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

依据 IEC 62321-6:2015, 采用溶剂萃取, 气相色谱质谱联用仪 (GC-MS) 进行分析。

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Items 项目	Unit 单位	RL	Results 测试结果	Limit 限值
			(1)	
Lead Content (Pb) 铅	mg/kg	2	N.D.	1000
Cadmium Content (Cd) 镉	mg/kg	0.5	N.D.	100
Mercury Content (Hg) 汞	mg/kg	2	N.D.	1000
Hexavalent Chromium (Cr(VI)) 六价铬	mg/kg	3	N.D.	1000
Polybrominated Biphenyls (PBBs) 多溴联苯				
Monobromobiphenyl 一溴联苯	mg/kg	5	N.D.	---
Dibromobiphenyl 二溴联苯	mg/kg	5	N.D.	---
Tribromobiphenyl 三溴联苯	mg/kg	5	N.D.	---
Tetrabromobiphenyl 四溴联苯	mg/kg	5	N.D.	---
Pentabromobiphenyl 五溴联苯	mg/kg	5	N.D.	---
Hexabromobiphenyl 六溴联苯	mg/kg	5	N.D.	---
Heptabromobiphenyl 七溴联苯	mg/kg	5	N.D.	---
Octabromobiphenyl 八溴联苯	mg/kg	5	N.D.	---
Nonabromodiphenyl 九溴联苯	mg/kg	5	N.D.	---
Decabromodiphenyl 十溴联苯	mg/kg	5	N.D.	---
Total content 总和	mg/kg	/	N.D.	1000
Polybrominated Diphenylethers (PBDEs) 多溴二苯醚				
Monobromodiphenyl ether 一溴二苯醚	mg/kg	5	N.D.	---
Dibromodiphenyl ether 二溴二苯醚	mg/kg	5	N.D.	---
Tribromodiphenyl ether 三溴二苯醚	mg/kg	5	N.D.	---
Tetrabromodiphenyl ether 四溴二苯醚	mg/kg	5	N.D.	---
Pentabromodiphenyl ether 五溴二苯醚	mg/kg	5	N.D.	---
Hexabromodiphenyl ether 六溴二苯醚	mg/kg	5	N.D.	---
Heptabromodiphenyl ether 七溴二苯醚	mg/kg	5	N.D.	---
Octabromodiphenyl ether 八溴二苯醚	mg/kg	5	N.D.	---
Nonabromodiphenyl ether 九溴二苯醚	mg/kg	5	N.D.	---
Decabromodiphenyl ether 十溴二苯醚	mg/kg	5	N.D.	---
Total content 总和	mg/kg	/	N.D.	1000
Conclusion 结论	/	/	Pass 合格	/

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A.2 Phthalates (DBP, BBP, DEHP, DIBP) content
邻苯二甲酸酯 (DBP, BBP, DEHP, DIBP) 含量

Test method: With reference to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

测试方法: 依据 IEC 62321-8:2017 溶剂萃取方法, 用气相色谱质谱联用仪 (GC-MS) 测定。

Items 项目	Unit 单位	RL	Results 测试结果	Limit 限值
			(1)	
Dibutyl Phthalate (DBP) 邻苯二甲酸二丁酯 (DBP)	mg/kg	30	N.D.	1000
Benzylbutyl Phthalate (BBP) 邻苯二甲酸丁基苄基酯 (BBP)	mg/kg	30	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP) 邻苯二甲酸二(2-乙基己基酯) (DEHP)	mg/kg	30	81	1000
Diisobutyl Phthalate (DIBP) 邻苯二甲酸二异丁酯 (DIBP)	mg/kg	30	N.D.	1000
Conclusion 结论	/	/	Pass 合格	/

Note:

注释:

- The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
最大允许限值引用自 RoHS 指令 (EU) 2015/863
- N.D. = Not Detected or less than RL
N.D.= 未检出或低于检出限
- RL = Report Limit
RL = 报告限值
- % = Percentage by weight
% = 重量百分比
- mg/kg = ppm
毫克每千克 = ppm
- 0.1% = 1000mg/kg, mg/kg = ppm
- --- = Not Regulated
--- = 未规定
- The results less than RL are not taken into account while calculating the sum contents.
加和含量计算时未计入小于方法检出限的结果

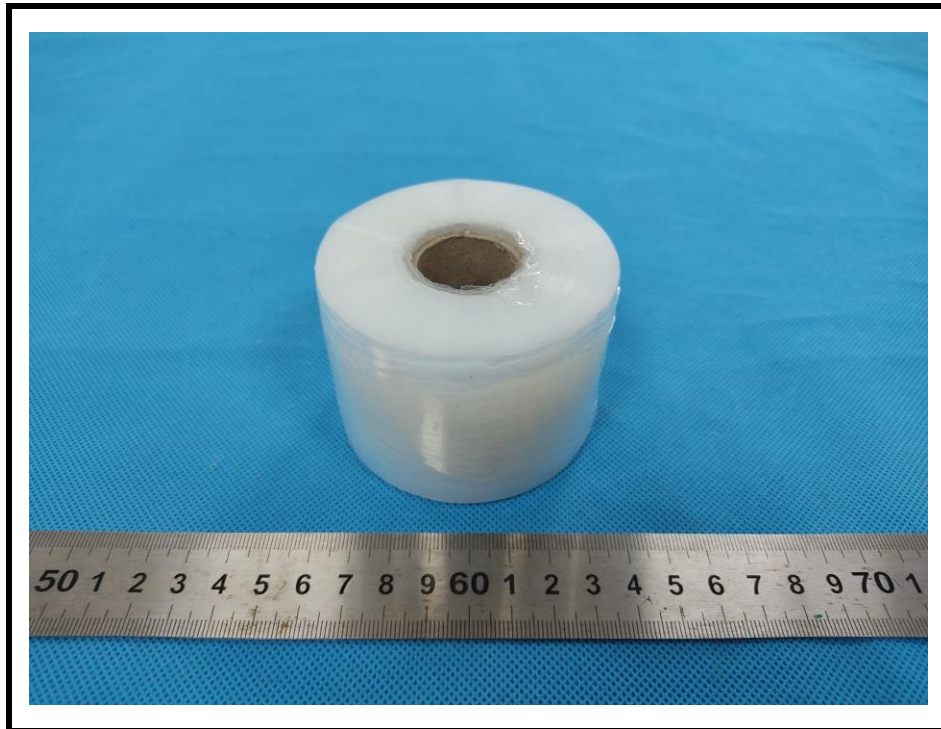
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Photograph of Sample
样品照片



BACL authenticate the photo on original report only
此图片仅限于随 BACL 正本报告使用

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Directions:

说明:

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2. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
除非另有声明，本报告中测试结果仅与被测样品相关。测试样品默认保存 30 天。
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6. The test samples were in good condition before testing.
在进行测试前，测试样品已确认状态完好。
7. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.
本报告给出的扩展不确定度是由合成标准不确定度乘以包含概率约为 95%时对应的包含因子 k 得到的。
8. 本报告中的数据结果用于学习、研究、内部质量控制、产品研发、科研，教学等目的。

*** End of Report ***

*** 报告结束 ***