堆码试验报告
Stacking Test Report

报告编号： Report No.：	LA2026B1634001S

样品名称 Samples	锂离子电池 Li-ion Battery
样品型号 Model	LX 902030
委托单位 Applicant	东莞市力兴电池有限公司 Dongguan LIXING Battery Co., Ltd.
签发日期 Issue Date	2026-07-01

深圳市莱恩瑞斯科技有限公司

Shenzhen Lionaces Technology Co., Ltd.

深圳市莱恩瑞斯科技有限公司 报告专用章

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1. 样品描述 Sample Description

电池描述 Battery Description			
电池名称 Sample name	锂离子电池 Li-ion Battery		
样品型号 Sample model	LX 902030	电池规格 Battery specification	3.7V, 500mAh, 1.85Wh
实验室 Laboratory	深圳市莱恩瑞斯科技有限公司 Shenzhen Lionaces Technology Co., Ltd.		
实验地址 Testing address	广东省深圳市宝安区沙井街道马安山社区马安山工业区南环路 38 号 101 Room 101, No.38, South Ring Road, Ma'anshan Industrial Zone, Ma'anshan Community, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China		
委托单位 Applicant	东莞市力兴电池有限公司 Dongguan LIXING Battery Co., Ltd.		
委托单位地址 Applicant address	广东省东莞市大塘莲峰一横路 15 号 7 栋 701 室 Room 701, Building 7, No. 15, Lianfeng 1st Cross Road, Datang, Dongguan City, Guangdong Province		
包装件生产企业 Packaging parts manufacturer	东莞市力兴电池有限公司 Dongguan LIXING Battery Co., Ltd.		
包装容器生产企业 Packing receptacle manufacturer	东莞市展图包装材料有限公司 Dongguan ZhantuPa.c,kaging MaLttedr.ials Co., Ltd.		
包装件描述 Packaging Description			
外包装 Outer package	瓦楞纸箱 Corrugated carton	内包装 Inner package	吸塑盘 Blister disc
衬垫材料 Cushion	吸塑盘 Blister disc	包装件尺寸 Dimension	345mm*260mm*200mm
包装件毛重 Gross weight	11kg	电池尺寸 Battery dimension	35.52mm*19.63mm*8.83mm
包装件电池净重 Net weight	9.92kg	电池数量 Battery number	1000Pcs
收样日期 Receiving Date	2026-06-17	完成日期 Completing Date	2026-07-01
包装方式 Packaging type	包装箱内含锂电池。 Package including lithium batteries.		

主检人： Prepared by	解洋洋	审核人： Checked by	常强	批准人： Approved by	刘海燕

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2. 参考方法 Reference Method

(ST/SG/AC.10/1/Rev.23)《关于危险货物运输的建议书——规章范本》
《Recommendations On The Transport Of Dangerous Goods-Model Regulations》

3. 测试项目 Test Item

堆码试验 Stacking test

4. 测试方法及标准要求 Test methods and standard requirements

4.1 试验样品数量:每种设计类型和每个制造厂家 3 个试验样品。

Number of test samples: three test samples per design type and manufacturer.

4.2 试验方法:在试验样品的顶部表面施加一力量，此力相当于运输时可能堆叠在它上面的同.样数量包装件的总重量。如果试验样品内装的液体相对密度与待运液体的不同，则该力应按后者计算。包括试验样品在内的最小堆码高度应是 3 米。试验时间为 24 小时，但拟装液体的塑料桶、罐和复合包装 6HH1 和 6HH2,应在不低于 40°C 的温度下经受 28 天的堆码试验。

Test method: the test sample shall be subjected to a force applied to the top surface of the test sample equivalent to the total weight of identical packages which might be stacked on it during transport; where the contents of the test sample are liquids with relative density different from that of the liquid to be transported, the force shall be calculated in relation to the latter. The minimum height of the stack including the test sample shall be 3 meters. The duration of the test shall be 24 hours except that plastics drums, jerricans, and composite packagings 6HH1 and 6HH2 intended for liquids shall be subjected to the stacking test for a period of 28 days at a temperature of not less than 40°C.

4.3 通过试验的标准:试验样品不得泄漏。对复合或组合包装而言，不得有所装的物质从内贮器和内包装中漏出。试验样品不得显出可能对运输安全有不利影响的损坏，或者可能降低其强度或造成包装件堆码不稳定的变形。在进行评估之前，塑料包装应冷却至环境温度。

Criterion for passing the test: no test sample may leak. In composite packagings or combination packagings, there shall be no leakage of the filling substance from the inner receptacle or inner packaging. No test sample may show any deterioration which could adversely affect transport safety or any distortion liable to reduce its strength or cause instability in stacks of packages. Plastics packagings shall be cooled to ambient temperature before the assessment.

5. 测试设备 Test equipment

LA-BT-E109 电池纸箱堆码试验机 Battery carton stacking test machine
LA-BT-E112 电池纸箱堆码试验机 Battery carton stacking test machine
LA-BT-E113 电池纸箱堆码试验机 Battery carton stacking test machine

6. 实验室环境条件 Test Environment Condition

温度 Ambient temperature：23±2 (℃)

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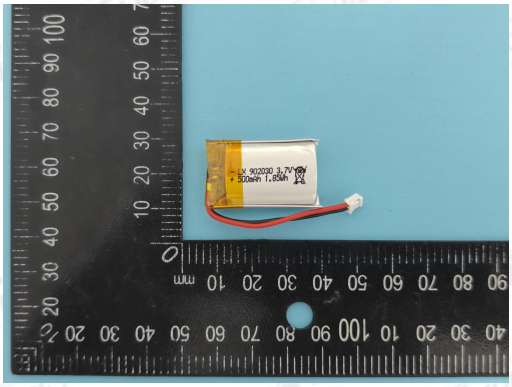
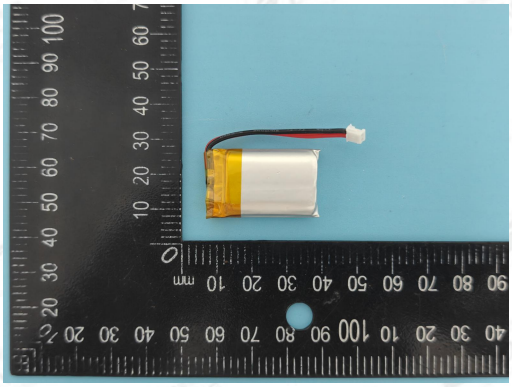
相对湿度 Ambient humidity：50±2 (%)

7. 测试结果 Test Data

编号 No.	单个包装高度 Height of individual packages h(M)	单个包装件质量 Quality of individual packages m(kg)	加载的载荷 Loaded load (N)	试验时间 Testing time (h)	结论 Conclusion
1#	0.2	11	1509.2	24	Pass
2#	0.2	11	1509.2	24	Pass
3#	0.2	11	1509.2	24	Pass
被测试包装件能够承受堆码试验. The test package is capable of withstanding a Stacking test in any orientation.					

8. 样品图片 Sample Photo





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----End of report----

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