



## LITHIUM BATTERIES TEST SUMMARY

IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA

1	Product Manufacturer	Robert Bosch Tool Corporation 1800 W. Central Road Mount Prospect, IL 60056 +1 (877) 267-2499 www.bosch.us
2	Model	Dremel 8050
3	Voltage rating	7.2v
4	Ah rating	1.0 Ah
5	Wh rating	7.2Wh

This model of Lithium ion cell has been successfully tested and comply with the UN Model Regulations, Manual of Test and Criteria, Part III, subsection 38.3

PERFORMED TESTS (Cell)		RESULTS
38.3.4.1 T1	Altitude Simulation	Passed
38.3.4.2 T2	Thermal Test	Passed
38.3.4.3 T3	Vibration	Passed
38.3.4.4 T4	Shock	Passed
38.3.4.5 T5	External Short Circuit	Passed
38.3.4.6 T6	Impact	Passed
38.3.4.8 T8	Forced Discharge	Passed

(Note that test T7 is not applicable to cells that are included in equipment that has over charge protection.)

PERFORMED TESTS (Battery Pack)	RESULTS
UN MANUAL OF TESTS and Criteria Part III, Subsection 38.3 Lithium Metal and Lithium Ion Batteries, UN ST/SG/AC.10/11/Rev.5/Amend.1	PASSED

Revision Date: 2019-12-16	Revision Number: 1.0
Name, Title: Kevin Wasielewski, Engineering Expert Team Lead	Signature:

The UN 38.3 tests were performed by one of the following test houses and were tested to UN Manual Test and Criteria Revision 3 Amendment 1 or subsequent revisions or amendments.

Panasonic Group, SANYO Electric Co., LTD Rechargeable Battery Business Division, Battery Application Engineering Department 222-1, Kaminaizen Sumoto City, Hyogo 656-8555 Japan +81-799-23-2883 www.Panasonic.co.jp/sanyo	Underwriters Laboratories 333 Pfingsten Road Northbrook, IL 60062 USA +1 847-272-8800 www.ul.com
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LITHIUM CELLS OR BATTERIES TEST SUMMARY  
 IN ACCORDANCE WITH SUB-SECTION 38.3  
 OF UN MANUAL OF TESTS AND CRITERIA  
 Product Test Information

Model numbers	Physical Description	Battery weight (g)	Wh rating	Test report number	Test report date	Applicable UN Numbers acc. to UN Model Regulations
Panasonic UR14650R Cell	Integrated cell	27.6 max	3.6	E1209454 UR14650R	Oct. 11. 2012	UN38.3
Dremel 8050	Secondary Li-ion Battery Pack in 2S/1P cell configuration	55.2 max	7.2	UL 20140926-4786507052	2014.09.26	UN38.3