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Date: 2018/09/06
 Subscriber: 899194001
 PartySite: 629289
 File No: E303250
 Project No: 4788487642
 PD No: 18040688
 Type: R
 PO Number:

Subject: **Procedure And/Or Report Material**

The following material resulting from the investigation under the above numbers is enclosed.

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
	2		Revised Authorization Page(s)	2018/09/03
	2		Appendix	
2016/11/30	2		New Test Record 2	2018/09/03

"Revised authorization page sent as a result of an International Name change to the UL Contracting Party".

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Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to UL's Customer Service Professionals. Contact information for all of UL's global offices can be found at <http://ul.com/aboutul/locations>.

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NBK File

UL INSPECTION CENTER 42

FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

UNLISTED COMPONENT

PLASTICS
(QMFZ3,QMFZ9)

Manufacturer: SEE ADDENDUM FOR MANUFACTURER LOCATIONS

629289 (Party Site)
Applicant: WARREN & BROWN TECHNOLOGIES PTY LTD
(899194-001) Maidstone 3012
108 Mitchell St
Po Box 235
Footscray
Vic 3011 AUSTRALIA

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party. The UL Contracting Party for Follow-Up Services is listed on addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

UL further defines responsibilities, duties and requirements for both Manufacturers and UL representatives in the document titled, "UL Mark Surveillance Requirements" that can be located at the following web-site: <http://www.ul.com/fus>. Manufacturers without Internet access may obtain the current version of this document from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of this document or the Follow-Up Service Terms referenced below, please contact UL's Customer Service at <http://www.ul.com/aboutul/locations/>, select a location and enter your request, or call the number listed for that location.

The Applicant and the specified Manufacturer(s) in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable service agreement is a Global Services Agreement ("GSA"), the Applicant and the specified Manufacturer(s) will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of use of the prescribed UL Mark, acceptance of the factory inspection, or payment of the Follow-Up Service fees which will incorporate such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking here: <http://services.ul.com/fus-service-terms>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

It is the responsibility of the Manufacturer to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

This Follow-Up Service Procedure contains information for the use of the above Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Manufacturer with the understanding that it will be returned upon request and is not to be copied in whole or in part.

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the above named Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

UL LLC has signed below solely in its capacity as the accredited entity to indicate that this Follow-Up Service Procedure is in compliance with the accreditation requirements.

Bruce A. Mahrenholz
Director
Conformity Assessment Programs (CPO)
UL LLC

LOCATION

(899194-001) 629289 (Party Site)
WARREN & BROWN TECHNOLOGIES PTY LTD
Maidstone 3012
108 Mitchell St
Po Box 235
Footscray
Vic 3011 AUSTRALIA
Factory ID: None
UL Contracting Party for above site is: UL GmbH

COMPONENT - PLASTICS (QMFZ2, QMFZ3, QMFZ8, QMFZ9)

TABLE B - INDEX TO TESTING

Sample Group	#/Group /Year	Generic Class	Material Designation	Report Date	Thk, mm	Color	Flame	MCC Ref	IR Ref	TGA Ref	DSC Ref	Additional Info	Test Program Code
1	1	Polypropylene Oxide (PPOX)											
			Noryl EN185 (r1)	2016-11-30	2.3	YL OR BK	V-0	-	M08-03-16 (YL), T08-30-18 (OR)	M03-01-16	M07-01-16	-	B

COMPONENT - PLASTICS (QMFZ2, QMFZ3, QMFZ8, QMFZ9)

INDEX TO FOOTNOTES:

(r1) - Virgin and regrind have the same flammability characteristics up to 100% weight.

TEST RECORD NO. 2

This Test Record covers the addition of alternate IR reference to existing grade Noryl EN185 (r1). No additional testing is considered necessary, based on the result of previous investigation (See Noryl EN185 (r1), File E303250, Report 2016-11-30, Test Record No. 1) and FUS Non-Conformance F180320630 (See Test Record T2, Datasheet 1) .

No additional testing was deemed necessary in order to establish Canadian National Recognition. The following tests were considered representative of the same tests required by CAN/CSA-C22.2 No. 0.17. A CRD is not required in this category since all applicable requirements are performance based only.

GENERAL:

Test results relate only to the items tested.

The test methods and results stated below have been reviewed and found to be in accordance with the requirements within the Standards noted in the Summary.

METHOD:

UL746A - Polymeric Materials - Short Term Property Evaluations

- Infrared Spectroscopy (IR) - Sec. 43
- Thermogravimetry (TGA) - Sec. 46
- Differential Scanning Calorimetry (DSC) - Sec. 47

Grade	Material	Color	Reference Dates		
			IR	TGA	DSC
Noryl EN185 - 100% regrind	PPHOX	YL	M08-03-16	M03-01-16	M07-01-16
		OR	T08-30-18		

Test Record Summary:

The results of this investigation indicate that the product(s) evaluated comply with the applicable requirements in

- the Standard for Polymeric Materials - Short Term Property Evaluations, UL746A, Sixth Edition, revised May 17, 2018
- the Evaluation of Properties of Polymeric Materials, CAN/CSA-C22.2 No. 017-00, Second Edition, revised October 1, 2000, reaffirmed 2018

and therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC or any authorized licensee of UL.

Test Record By:

Charissa Gunawan
Engineer

Reviewed by:

Stanley Chan
Senior Project Engineer