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LABORATORY DATA PACKAGE				Date	

CLIENT INFORMATION	
Company Name	Radiant Enterprises
Address	C-1/351/2 GIDC Makarpura, Vadodara, Gujarat, 390010 ,India

AUDIT INFORMATION:			
Description of Tests	Per Standard No. UL 94	Edition /Revision Date	6th June 27, 2020
[] Tests Conducted by +			
	Printed Name	Signature	
[]UL Staff witnessing testing (WTDP only)			
[]Authorized Signatory (CTDP, TPTDP, TCP)	Printed name	Signature, and include date for CTDP, TPTDP, TCP	
Reviewed and accepted by qualified Project Handler	Lata Patil	Lata Patil	
	Printed Name	Signature	

TESTS TO BE CONDUCTED:			
Test No.	Done	Test Name	[] Comments/Parameters [X]Tests Conducted by ++
1	X	50W (20 mm) VERTICAL BURNING TEST; V-0, V-1 or V-2	Jim Sun 2020-09-18

Tests conducted in accordance with **UL 94**

Test Equipment- See "TEST EQUIPMENT INFORMATION"
Samples - See "TEST SAMPLE IDENTIFICATION"

Instructions -
+ - When all tests are conducted by one person, printed name and signature can be inserted here instead of including printed name and signature on each page containing data. Must indicate number of pages in the data package.

++ - When test conducted by more than one person, printed name and signature of person conducting the test can be inserted next to the test name instead of including printed name and signature on each page containing data. Must indicate number of pages in the data package.

Special Instructions -

[X] Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be recorded at the time the test is conducted.

Ambient Temperature, C	25 ± 10	Relative Humidity, %	< 75	Barometric Pressure, mBar	N/A

[ ] No general environmental conditions are specified in the Standard(s)or have been identified that could affect the test results or measurements.

RISK ANALYSIS RELATED TO TESTING PERFORMANCE:

The following types of risks have been identified. Take necessary precautions. This list is not all inclusive.

[ ] Electric shock	**[ ]** Radiation
[ ] Energy related hazards	**[ ]** Chemical hazards
[ ] Fire	**[ ]** Noise
[ ] Heat related hazards	**[ ]** Vibration
[ ] Mechanical	**[ ]** Other (Specify)__

Note to Lab:

Please refer the below mentioned LPGs as applicable, before conducting the test

00-LO-L0909- LPG for Measuring Sample thickness

00-LO-L0895- LPG for CTI Test

00-LO-L0884- LPG for UL94 50W and 500 W Vertical Burning Test Flame Confirmation Procedure

00-LO-L0891- LPG for Vertical Flammability Materials Testing in UL94

00-LO-L0924- LPG For Glow wire series (GWEPT, GWFI, GWIT) of Tests in IEC 60695-2-10, -11, -12, and -13

00-LO-W0860- Work Instruction for IEC 60695-2-10 Glow Wire Apparatus Verification

00-CA-S0027- Plastics Project Handling Global Guidelines (PPHiGG)

WITNESS TEST DATA PROGRAM (WTDP) INFORMATION:

Environment:	
Accommodations and Environmental conditions, including proper power source meet the requirements of the test standard or UL default criteria (ISO/IEC 17025 Clause 5.3.1, 5.3.2. 5.3.3, 5.3.4)	[ ]Yes [ ]No []N/A
Personnel:	
Lab Management shall authorize personnel to operate particular types of equipment used in testing. (ISO/IEC 17025 5.2.5)	[ ]Yes [ ]No
Equipment:	
Testing is being conducted within the test equipment calibration dates. (See Test Instrument Information Page and ISO/IEC 17025 5.5.1, 5.5.2, 5.5.4, 5.5.5, 5.5.8,)	[ ]Yes [ ]No
Calibrations for testing equipment is traceable to SI Units. Refer to 00-OP-C0032 (Calibration Certificate Analysis). (ISO/IEC 17025 5.6.2.2)	[ ]Yes [ ]No
Critical Consumables:	
Critical consumables are compliant with test standard requirements. (ISO/IEC 17025 Clause 4.6)	[ ]Yes [ ]No [ ]N/A
Sample Identification:	
Identification of items to be tested has been made (e.g. model no., Serial No., etc.) (See Test Sample Identification page and ISO/IEC 17025 Clause 5.8.2)	[ ]Yes [ ]No
Additional Requirements:	
Testing at a third party laboratory selected by UL and not part of the Third Party Test Data Program requires a Mutual Nondisclosure (NDA) and Confidentiality Agreement, 00-LE-F0025, or alternate agreement form approved by UL's Legal Department to be stored and included with the Test Package.	[ ]Yes [ ]No [ ]N/A
Summary:	
The test facility [was][was not] deemed to have the environment and capabilities necessary to perform the tests included in this data package.	

N.A , Lata 18th Sep 2020

[ ] The CAS Staff as indicated below, (a competent L1, L2, L3 or L4 in a similar CCN/Standard for a similar test method) was utilized to conduct the witnessing of tests on behalf of the project handler. (Please complete the table below to document the rationale and approval.)

Name of UL Staff conducting WTDP	CCN/Standard to be witnessed	Test(s) to be witnessed	L1, L2, L3 or L4 Competency	Similar CCN/Standard Competency	L3 Reviewer Approval & Date (Similar CCN/Standard)

[ ] The Field Services Staff as indicated below, (with a program competency as authorized by the FOM) was informed and utilized to conduct the witnessing of tests on behalf of the project handler. (Please complete the table below to document the information and approval.)

Name of UL Staff conducting WTDP	CCN/Standard to be witnessed	Test(s) to be witnessed	FOM Approver (name)	L3 Reviewer Approval & Date

N.A , Lata 18th Sep 2020

TEST LOCATION:
[X]UL or Affiliate **[]**WTDP **[]**CTDP **[]**OTHER
Company Name Underwriters Laboratories Taiwan Co., Ltd
Address 1st Fl, 260 Da-Yeh Road, Peitou, Taipei City, Taiwan 112

TEST EQUIPMENT INFORMATION

Inst. ID No.	Instrument Type	Test Number +, Test Title or Conditioning	Function /Range	Last Cal. Date	Next Cal. Date
N.A	N.A	N.A	N.A	N.A	N.A

+ - If Test Number is used, the Test Number must be identified on the data sheet pages or on the Data Sheet Package cover page.

The following additional information is required when using client's or rented equipment, or when a UL ID Number for an instrument number is not used. The Inst. ID No. below corresponds to the Inst. ID No. above.

Inst. ID No.	Make/Model/Serial Number/Asset No.
N.A	N.A

Completion of Meter - Test instrument information on the following pages is optional. Recording of Meter - Test instrument information on this page is still required.

[X]Test equipment information is recorded on Meter use.

TEST SAMPLE IDENTIFICATION

The table below is provided to provide correlation of sample numbers to specific product related information. Refer to this table when a test identifies a test sample by "Sample No." only.

Sample Card No.	Date Received	Test No.	Sample No.	Manufacturer, Product Identification and Ratings
3310664	2020-09-10	1	-	Radiant Enterprises , RE_CAPG_325_1%

+ - If the Test Number is used, then the Test Number or Numbers the sample was used in must be identified on the data sheet pages or on the Data Sheet Package cover page.

[] Sampling Procedure -

@ : Dimension and thickness measured by : Bruce Peng Witnessed By Tim Chen 2020-09-10
Thermal shock / condition by : Bruce Peng Witnessed By Tim Chen 2020-09-10

SAMPLE CONDITIONING LOG	UL 94, §6 CSA C22.2 No.0.17-00, §4.2.1.3.3, 4.2.2.2.2, 4.2.3.2.2, 4.2.5.2.3 UL746C, §57, 58

	Conditioning/ Exposure	Set No.	In Date/Time	Technician	Out Date/Time	Technician
[X]	As received > 48h at 23 ± 2°C, 50 ± 5% RH	1	2020-09-10 20:00	Bruce Peng Witnessed By Tim Chen	2020-09-18 11:00	Jim Sun
[X]	Air oven aging 168 ± 2h at 70 ± 2°C	1	2020-09-10 20:00	Bruce Peng Witnessed By Tim Chen	2020-09-17 20:00	**Jim Sun**
	Desiccator > 4h at 23 ± 2°C, <20% RH	1	2020-09-17 20:01	Jim Sun	2020-09-18 11:00	Jim Sun
[X]	Cotton Condition> 24 hr, < 30 min	1	2020-09-17 11:00	Jim Sun	2020-09-18 11:00	Jim Sun

Chamber setting(s) **[**was**]** **[**were**]** monitored to ensure that the setting(s) **[**was**]** **[**were**]** stable throughout the test time frame. Any deviations from the setting(s) are noted below.

Date	Time period of deviation	Setting(s)	Chamber

B.P
2020-09-10

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50W (20 mm) VERTICAL BURNING TEST; V-0, V-1 or V-2	UL 94, §8 CSA C22.2 No.0.17-00, §4.2.2 (ASTM D3801, IEC 60695-11-10)

Specimen Review:	[X]	Radius < 1.3 mm, Width = 13±0.5 mm, Length = 125±5 mm and edges are smooth.

Preparation of Test Flame:		
Gas Flow Rate:	101	mL/min (105±5 mL/min)
Back Pressure:	1	mm water (<10 mm water)
[X] Test flame is blue (yellow tip just removed), Height = 20±1 mm		

Set#: 1 Material: RE CAPG 325 1% (13.00 mm) Color: GY

>48h/23±2°C/50±5%RH							168±2h/70±2°C + >4h/23±2°C/<20%RH						
Test Date: 2020-09-18							Test Date: 2020-09-18						
Start Time:11:00			End Time: 11:10				Start Time:11:10			End Time: 11:20			
#	Thk (mm)	t_1 (s)	X_1	t_2 (s)	t_2+t_3 (s)	X_2	#	Thk (mm)	t_1 (s)	X_1	t_2 (s)	t_2+t_3 (s)	X_2
1	12.728	0	2	0	0	2	6	12.868	0	2	0	0	2
2	12.631	0	2	0	0	2	7	12.616	0	2	0	0	2
3	12.619	0	2	0	0	2	8	12.818	0	2	0	0	2
4	12.813	0	2	0	0	2	9	12.629	0	2	0	0	2
5	12.896	0	2	0	0	2	10	12.805	0	2	0	0	2
Total Flame Time, $\Sigma t_1+\Sigma t_2$ (s):				0			Total Flame Time, $\Sigma t_1+\Sigma t_2$ (s):				0		
Notes:										Flame Class:		V-0	

Observations (X_1, X_2)

(1) Specimen burned up to holding clamp.
(2) Specimen did not drip.
(3) Specimen dripped particles which did not ignite cotton.
(4) Specimen dripped particles which ignited cotton.
(5) Fumes from specimen extinguished flame-burner relit during test.
(6) Misc:

Lab Ambient:	23	°C (25±10°C) and	51	%RH (< 75%RH)

For engineering use only:

[ ] VTM was attempted for samples < 0.025mm, but wrapping of the sample around the mandrel was NOT possible.

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LABORATORY DATA PACKAGE				Date	

50W (20 mm) VERTICAL BURNING TEST; V-0, V-1 or V-2	UL 94, §8 CSA C22.2 No.0.17-00, §4.2.2 (ASTM D3801, IEC 60695-11-10)

Specimen Review:	[ ]	Radius < 1.3 mm, Width = 13±0.5 mm, Length = 125±5 mm and edges are smooth.

Preparation of Test Flame:		
Gas Flow Rate:		mL/min (105±5 mL/min)
Back Pressure:		mm water (<10 mm water)
[ ] Test flame is blue (yellow tip just removed), Height = 20±1 mm		

Set#:	Material: * * RETESTS * *						Color:						
>48h/23±2°C/50±5%RH							168±2h/70±2°C + >4h/23±2°C/<20%RH						
Test Date:							Test Date:						
Start Time:			End Time:				Start Time:			End Time:			
#	Thk (mm)	t_1 (s)	X_1	t_2 (s)	t_2+t_3 (s)	X_2	#	Thk (mm)	t_1 (s)	X_1	t_2 (s)	t_2+t_3 (s)	X_2
1							6						
2							7						
3							8						
4							9						
5							10						
Total Flame Time, $\Sigma t_1+\Sigma t_2$ (s):							Total Flame Time, $\Sigma t_1+\Sigma t_2$ (s):						
Notes:							Flame Class:						

Observations (X_1, X_2)

(1) Specimen burned up to holding clamp.
(2) Specimen did not drip.
(3) Specimen dripped particles which did not ignite cotton.
(4) Specimen dripped particles which ignited cotton.
(5) Fumes from specimen extinguished flame-burner relit during test.
(6) Misc:

Lab Ambient:		°C (25±10°C) and		%RH (< 75%RH)

For engineering use only:

[ ] VTM was attempted for samples < 0.025mm, but wrapping of the sample around the mandrel was NOT possible.

J.S
2020-09-18

END OF DATASHEET PACKAGE. THIS PAGE INTENTIONALLY LEFT BLANK