

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

EPABX: +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33,

Fax : +91 (0265) 2638382,

E-mail : erda@erda.org

Web : http://www.erda.org



TEST REPORT

SHEET 1 of 4

NAME & ADDRESS OF CUSTOMER

KEC International Limited
349, Hebbal Industrial Area,
Hootagalli, Belavadi Post,
Mysore - 570 018.
(Karnataka)

REPORT No
DATE

RP-1415-004195
17-5-2014

CUSTOMER REF No
DATED

Nil
08-4-2014

DATE OF
SAMPLE RECEIPT

DATES OF TESTING

14-4-2014

02-5-2014 to
17-5-2014

SAMPLE DESCRIPTION

Dumbbell shape specimens prepare from
outer sheath of
Cable Size & Description: 3Cx10 sq.mm.
Cu conductor, XLPE insulated, GI arm,
FRLS outer sheathed, 1100V electric
cable
Cable Identification No.: 14X1433

SAMPLE IDENTIFICATION

ERDA SAMPLE CODE: ERDA-00042462

No. TEST DETAILS

1. Exposure to UV radiation
2. Tensile strength and elongation
3. Hydrolytic stability

TEST SPECIFICATION

ASTM G 154-06
IS:10810 (Pt.7)-1984 (Method of test)
ASTM D 3137-81

Note: The above sample was duly signed and sealed by TPL as TPL/624 on 29-3-14.
Photograph of seal is on sheet 4 of 4.

Illeth
PREPARED BY

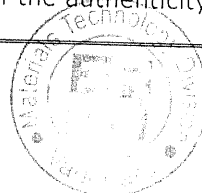
AD
CHECKED BY

Arvind
APPROVED BY

- Note:
1. This report relates only to the particular sample received for testing in good condition at ERDA
 2. This report cannot be reproduced in part under any circumstances
 3. Publication of this report requires prior permission in writing from Director, ERDA
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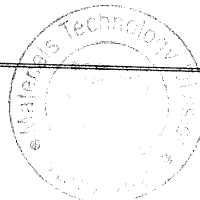
SHEET 2 of 4

Sr. No	Particular of tests & Cl. No.	Requirements as per specification	Light source/ exposure details/ Obtained value	Remarks
1.	Exposure to UV radiation Cl. No. 9			
	Exposure device used	--	UVTEST, ATLAS	--
	Light source	--	Fluorescent UV lamps-UVB - 313	--
	Typical irradiance, W/m ² /nm	--	0.71	--
	- Exposure cycle	--	2	--
	- UV	--	4 h	--
	- Black Panel Temperature, °C	--	60 ± 3	--
	- Condensation	--	4 h	--
	- Black Panel Temperature, °C	--	50 ± 3	--
	- Total exposure time, days	--	14*	--
2.	Tensile strength and elongation at break Cl. No. 8			
	- Tensile strength, N/mm ²			
	- Before Exposure	--	14.2	--
	- After Exposure	--	13.3	--
	- Retention, %	--	94	--
	- Elongation at break, %			
	- Before Exposure	--	238	--
	- After Exposure	--	223	--
	- Retention, %	--	94	--

* As specified by the customer.

Jilbeth
PREPARED BY

[Signature]
CHECKED BY



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SHEET 3 of 4

Sl. No	Particular of tests & Cl. No.	Requirement as per specification	Obtained value	Remarks
3.	Hydrolytic stability, at 25°C after exposure for 96 hrs at (85 ± 1)°C over distilled water Cl. No. 6			
	- % Retention in tensile strength	--	93	--
	- % Retention in Elongation at break	--	94	--

J. Ilheth
PREPARED BY

[Signature]
CHECKED BY

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