



Test Report

No. VNHL2210023304EE

Date: November 10, 2022 Page 1 of 4

CONG TY TNHH KY THUAT NEW SUN VIET NAM

SO 28 DUONG 15B, KHU PHO 6, PHUONG PHUOC LONG B, THANH PHO THU DUC, THANH PHO HO CHI MINH, VIET NAM

The following sample was submitted and identified on behalf of the client as below:

SGS Job No : VNHL2210023304EE
Sample Description : POLYAMIDE + UV RESISTANT - CORRUGATED FLEXIBLE CONDUIT LSZH (SPLIT TYPE, ID 29 X OD 34.5)
Project Title : HO CHI MINH CITY URBAN RAILWAY
Construction Project : BEN THANH – SUOI TIEN SECTION (LINE 1)
Sample Receiving Date : OCTOBER 20, 2022
Final confirmed Date : OCTOBER 20, 2022
Testing Period : OCTOBER 21, 2022 TO NOVEMBER 10, 2022
Test Requested : PLEASE REFER TO THE RESULT SUMMARY.
Test Results : PLEASE REFER TO NEXT PAGE(S).
Result Summary :

Test(s) Requested	Result(s)
Smoke Density	See result

Signed for and on behalf of

SGS Vietnam LTD



To Ka Wing

Chemical Lab Manager

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Test result(s):

Sample Description:

Component No.	Description	Material	Color
1	BLACK PLASTIC (POLYAMIDE + UV RESISTANT - CORRUGATED FLEXIBLE CONDUIT LSZH (SPLIT TYPE, ID 29 X OD 34.5))	PLASTIC	BLACK

I. Test Conducted

This test was conducted as per IEC 61034-2:2005+AMD1:2013+AMD2:2019 Measurement of smoke density of cables burning under defined conditions –Part 2: Test procedure and requirements.

II. Sample details

Sample description	Corrugated flexible conduit (provided by client) *
Color	Black
Overall diameter	34.5 mm
Specimen length	1000mm

*Insert one metal tube into one sample, all of test required by client, the test results only for reference.

Conditioning:

Before testing, all test pieces was carefully straightened and then conditioned for at least 16 h at $(23 \pm 2)^\circ\text{C}$.

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III. Preparation of specimen

Number of specimens: N=2 pcs

*Formula:

D>40mm,	N=1
20mm<D≤40mm,	N=2
10mm<D≤20mm,	N=3
5mm<D≤10mm,	N ₁
1mm≤D≤5mm,	N ₂

D—overall diameter of cable.

N₁—The number of test pieces, $N_1 = 45/D$. The value of N₁ shall be rounded downwards to integer to give the number of test pieces.

N₂—The number of bundles, $N_2 = 45/3D$, and each bundle contain 7 test pieces.

Details of mounting test sample:

Circular cables: Individual test piece or bundles of test pieces shall be bound together at the ends, and at 300mm from each end, at which place they shall be clamped to the support by means of wire binders.

IV. Test results

Test duration	40 min
The minimum light transmittance (%)	97.7

IEC 61034-2:2005+AMD1:2013+AMD2:2019, Annex B (informative) Recommended performance requirement

In the absence of any given requirement, it is recommended that a value of 60% cable light transmittance is adopted as a minimum for any cable tested against this standard.

Statements:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test. They are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Remark: These above tests were performed by SGS's China Lab.

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PHOTO OF SUBMITTED SAMPLE FOR TESTING


REPORT RESULTS REFER TO SUBMITTED SAMPLE (S) ONLY
*****End of Report*****

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