

**REPORT No.** 084058-4-a

CUSTOMER	ETELEC ITALIA, S.p.A.
CONTACT PERSON	MARCO SALVAGO
ADDRESS	VIA D. DE ROBERTO, 40 IT-80143 NAPOLIS (ITALY)
PURPOSE	REACTION TO FIRE TEST REPORT REGARDING THE IGNITABILITY OF PLASTIC MATERIALS AS PER EN 60695-11- 10:2013/AC:2014
TESTED SAMPLE	SILICONE INSULATION FILLER SAMPLES REF.: " MPGEL/MPONE "
RECEPTION DATE	10.06.2021
TEST DATE	28.01.2022
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Technical Manager

Pablo Garmendia
Technical Manager

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SAMPLE CHARACTERISTICS

On 10 June 2021, TECNALIA R&I received from the company ETELEC ITALIA, S.p.A. silicone insulation filler samples. 20 samples were received measuring (125 x 10) mm and 8-9 mm thick, in order to perform the tests according to standard EN 60695-11-10:2013/AC:2014 *Horizontal Flame Test*, referenced as:

“MPGEL/MPONE”

The thicknesses of the samples were the following:

Thickness of conditioned test specimens (mm)				
Ref.	End 1 (mm)	Centre (mm)	End 2 (mm)	Mean (mm)
1	7.74	7.96	8.12	7.94
2	7.82	7.90	7.98	7.90
3	8.02	7.84	7.96	7.94

Photographs are included in the Annex.

The laboratory does not have the technical datasheet of the product.

TEST REQUESTED

The test requested was the **Ignitability test of plastic materials** according to EN 60695-11-10:2013/AC:2014 *Horizontal Flame Test*.

The uncertainties related to the main test parameters are available to the customer upon request.

CONDITIONING

The samples were conditioned at a temperature of 23 °C ± 2 °C and a relative humidity of 50% ± 5% during 48 hours.

Environmental conditions during testing were:

T: 21 °C

Humidity: 33 %

TEST PERFORMED

The test performed was the *Horizontal Flame Test* as per EN 60695-11-10:2013/AC:2014

The test consists of applying a flame 20 mm in height to the end of a specimen placed horizontally for 30 seconds. Each test specimen is marked with two lines, one at 25 mm and another at 100 mm from the end.

3 test specimens are tested. Upon removal of the flame, the test specimen is observed to check whether the following conditions occur:

- Whether the test specimen continues burning after its application
- Whether the 25 mm and 100 mm marks are passed
- Whether the 1st mark is passed but not the 2nd, note the time (t) and damaged length (L)
- Whether the 2nd mark and the speed (v) are passed
- Whether there are falling particles or drips

They are classified as HB, HB40 or HB75 according to the criteria they meet.

RESULTS

Ignitability test of plastic materials according to EN 60695-11-10:2014+A1:2015 Horizontal Flame Test:

Conditioned samples	1	2	3	MEAN
Reaches the 1st mark at 25 mm (s)	No	No	No	
Reaches the 2nd mark at 100 mm (s)	No	No	No	
Burned distance (mm)	-	-	-	
Time between both marks (s)	-	-	-	
Cotton ignition (Y/N)	No	No	No	
Propagation speed (mm/s)	-	-	-	

Remarks: Without incidents.

CLASSIFICATION

According to standard EN 60695-11-10:2013/AC:2014 *Horizontal Flame Test*, the (125 x 10 x 7.9) mm silicone insulation filler samples, with reference "MPGEL/MPONE", received on 10 June 2021, were given the following classification:

HB

NOTE: The test results relate to the performance of test samples of a product under the specific test conditions. They do not pretend to constitute the only potential fire risk assessment criterion that could entail the use of the product.

PHOTOGRAPHS OF THE TESTED SAMPLE



**Appearance of the samples after the test as per EN 60695-11-10
*Horizontal Flame Test***