

## Test Results Report

**Report number:** F19070-INR-1 **Issue:** /

**Customer:** MATERIALISE NV  
**Address:** Technologielaan 15 Leuven 3001 Belgium  
**Purchase Order:** POMAT19-07475

**Test Type:** **VERTICAL FLAMMABILITY TEST**

**Test Equipment ID:** HVF001  
**Test Method:** AITM 2-0002B Issue 3  
CS/FAR App. F, Part I, § (b)(1), (b)(2), (b)(3) & (b)(4)  
Aircraft Materials Fire Test Handbook: DOT/FAA/AR-00/12 - Chapter 1  
**Test Requirement(s):** ABD0031 Issue F & CS/FAR 25.853 (a) Appendix F, Part I, (a)(1)(ii)  
**Conditioning:** 47,1 hours at 23°C and 50%R.H.  
**Ignition time:** 12s  
**Flame height:** 38mm  
**Flame temperature:** 898°C  
**Ambient conditions:** 21,2°C and 36,1%R.H.

### MATERIAL

**Identification Number(\*):** QTP 128761  
**Material description(\*):** PA 2241 FR Polyamide Powder  
**Batch number(\*):** PA 12: 918531  
**Manufacturer of specimen / order n°(\*):** Materialise nv / 128761  
**Cert. of conformity(\*):** Flammability\_smoke\_tox\_v8\_29082019  
**Reception date:** 04/09/2019  
**Color:** White  
**Specimen size:** Thickness 1,0 mm Width 75 mm Length 305 mm

**"Certified hereby that above mentioned material has been tested in accordance with the mentioned test standards and procedure"**

**Signed:** Ion Lopez  
Head of Fire Testing & Research Unit

(\*) Information supplied by customer. CTA does not fact-check, validate or in any way confirm test sample/material information provided by customer.  
CTA only takes responsibility for the results of the samples supplied by customer. Any changes to or copies of this document are strictly forbidden.

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### TEST RESULTS

Sample	Burn length (mm) [2]	After flame time (s) [3]	Drip flame time (s) [4]	Drips Yes/No [4]	Notes
1/F19070	38,0	0,0	0,0	Yes	128761/39
3/F19070	32,0	0,0	1,0	Yes	128761/41
4/F19070	34,0	0,0	0,5	Yes	128761/42
<b>Average</b>	<b>34,7</b>	<b>0,0</b>	<b>0,5</b>	<b>Yes</b>	
<b>Acceptance criteria [1]:</b>	<b>&lt;203</b>	<b>&lt;15</b>	<b>&lt;5</b>		

[1] According to the regulation ABD0031 Issue F (AITM 2.0002B Issue 3)

[2] Length uncertainty available for the customer in the laboratory.

[3] Time uncertainty available for the customer in the laboratory.

[4] Drip flame time "0" and Drips Yes/No "Yes": Dripping occurs but drips do not burn. Time uncertainty available for the customer in the laboratory.

Remarks: N/A

**TEST RESULT: PASSED**

Date of test: 06/09/2019

Test performed by: Ander Montero

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### PHOTOGRAPHS



Comparison between burnt sample 1/F10970 and non burnt sample 2/F19070



1/F19070 - Burnt area detail view