



**Order No:** F180752896  
**Project No:** 1000430371  
**File No:** E98983  
**Vol No:** 6  
**Issue Date:** 2018-05-22

## Follow-up Sample Test Report

**Contact:** RONG SU

**Customer Name:** NAN YA PLASTICS CORP CCL DEPT ELECTRONIC MATERIAL DIV

**Address:** 201 TUNG HWA N RD

TAIPEI

10508

TW

**Manufacturer:** NAN YA ELECTRONIC MATERIALS (HUIZHOU) CO LTD

**Address:** YONGSHI BLVD

SHIWAN TOWN BOLUO COUNTY

HUIZHOU GUANGDONG

516127

CN

**Product Category:** QMTS2

**Product Description:** Polymeric materials - filament-wound tubing, industrial laminates, vulcanized fiber, and materials for use in fabric

**Model Number(s):** NP-155FTL

**Inspection Date:** 2018-03-16

**UL Contact:** ELMA HO at +886277373531, Ext. 2531, or via email at FUSAdmin.TPI@ul.com.

Project Comments:

### Statement of Results

#### General Information - UL746E for FUS Project (Laminates)

Test Name	Test Result
Type Name	NP-155FTL
Color	NC
Dielectric Thickness	0.380 mm
Sample Form	BAR
IR Reference Date	T09-13-04(TC-1900)
TGA Reference Date	02-17-04
Original 94V Flame Rating	V-0



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**Master Summary - UL746E for FUS Project (Laminates) 0.38 mm**

Test Name	Test Result
UL94 (50 W-20 mm) Vertical Burning	V-0
UL94 (50 W-20 mm) Vertical Burning	Compliant
UL746A Infrared Spectroscopy (IR)	Yes
UL746A Infrared Spectroscopy (IR)	Compliant
UL746A Thermogravimetry (TGA)	Yes
UL746A Thermogravimetry (TGA)	Compliant

**FUS Infrared Spectroscopy**

Test Name	Test Result
IR Conformance	Yes

**FUS TGA Analysis**

Test Name	Test Result
TGA Conformance	Yes

**50W (20 mm) Vertical Burning Test (As Received) 0.38 mm**

Test Name	Test Result
Specimen Number	1
Thickness	0.393 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen did NOT drip
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen did NOT drip
Afterflame + Afterglow Time (T2 + T3)	1.0 s

**50W (20 mm) Vertical Burning Test (As Received) 0.38 mm**

Test Name	Test Result
Specimen Number	2
Thickness	0.388 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen did NOT drip
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen did NOT drip
Afterflame + Afterglow Time (T2 + T3)	0.0 s



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**50W (20 mm) Vertical Burning Test (As Received) 0.38 mm**

Test Name	Test Result
Specimen Number	3
Thickness	0.393 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen did NOT drip
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen did NOT drip
Afterflame + Afterglow Time (T2 + T3)	1.0 s

**50W (20 mm) Vertical Burning Test (As Received) 0.38 mm**

Test Name	Test Result
Specimen Number	4
Thickness	0.393 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen did NOT drip
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen did NOT drip
Afterflame + Afterglow Time (T2 + T3)	1.0 s

**50W (20 mm) Vertical Burning Test (As Received) 0.38 mm**

Test Name	Test Result
Specimen Number	5
Thickness	0.390 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen did NOT drip
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen did NOT drip
Afterflame + Afterglow Time (T2 + T3)	0.0 s



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**50W (20 mm) Vertical Burning Test (Oven-Aged) 0.38 mm**

Test Name	Test Result
Specimen Number	1
Thickness	0.395 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen did NOT drip
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen did NOT drip
Afterflame + Afterglow Time (T2 + T3)	1.0 s

**50W (20 mm) Vertical Burning Test (Oven-Aged) 0.38 mm**

Test Name	Test Result
Specimen Number	2
Thickness	0.397 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen did NOT drip
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen did NOT drip
Afterflame + Afterglow Time (T2 + T3)	0.0 s

**50W (20 mm) Vertical Burning Test (Oven-Aged) 0.38 mm**

Test Name	Test Result
Specimen Number	3
Thickness	0.394 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen did NOT drip
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen did NOT drip
Afterflame + Afterglow Time (T2 + T3)	0.0 s



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**50W (20 mm) Vertical Burning Test (Oven-Aged) 0.38 mm**

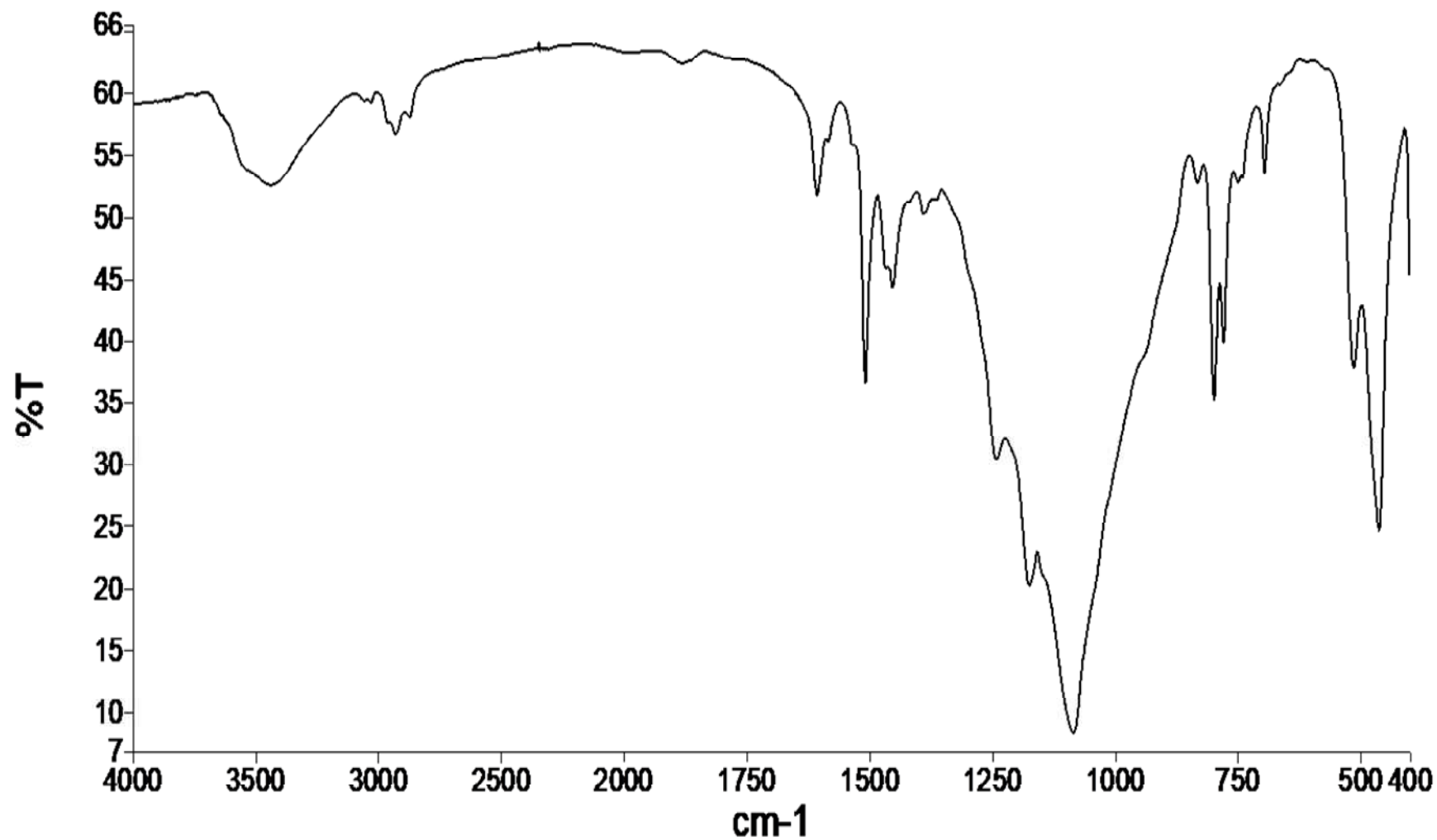
Test Name	Test Result
Specimen Number	4
Thickness	0.393 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen did NOT drip
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen did NOT drip
Afterflame + Afterglow Time (T2 + T3)	0.0 s

**50W (20 mm) Vertical Burning Test (Oven-Aged) 0.38 mm**

Test Name	Test Result
Specimen Number	5
Thickness	0.397 mm
Afterflame Time (T1)	0.0 s
Comments (T1)	Specimen did NOT drip
Afterflame Time (T2)	0.0 s
Comments (T2)	Specimen did NOT drip
Afterflame + Afterglow Time (T2 + T3)	1.0 s

# IR

Sample filings ground and mixed with KBr,  
pressed into pellet.



Name

Description

F180752896TR1 E98983,NP-155FTL,04,N,F,NC,B,23/56,CL.(havey scrape)

Sample: NP-155FTL,IND LAM,NC

Comment: E98983,22°C/58%RH

Method: 40°C-650°C@20°Cmin

Operator: NL,T,N2@100CCM,WE067

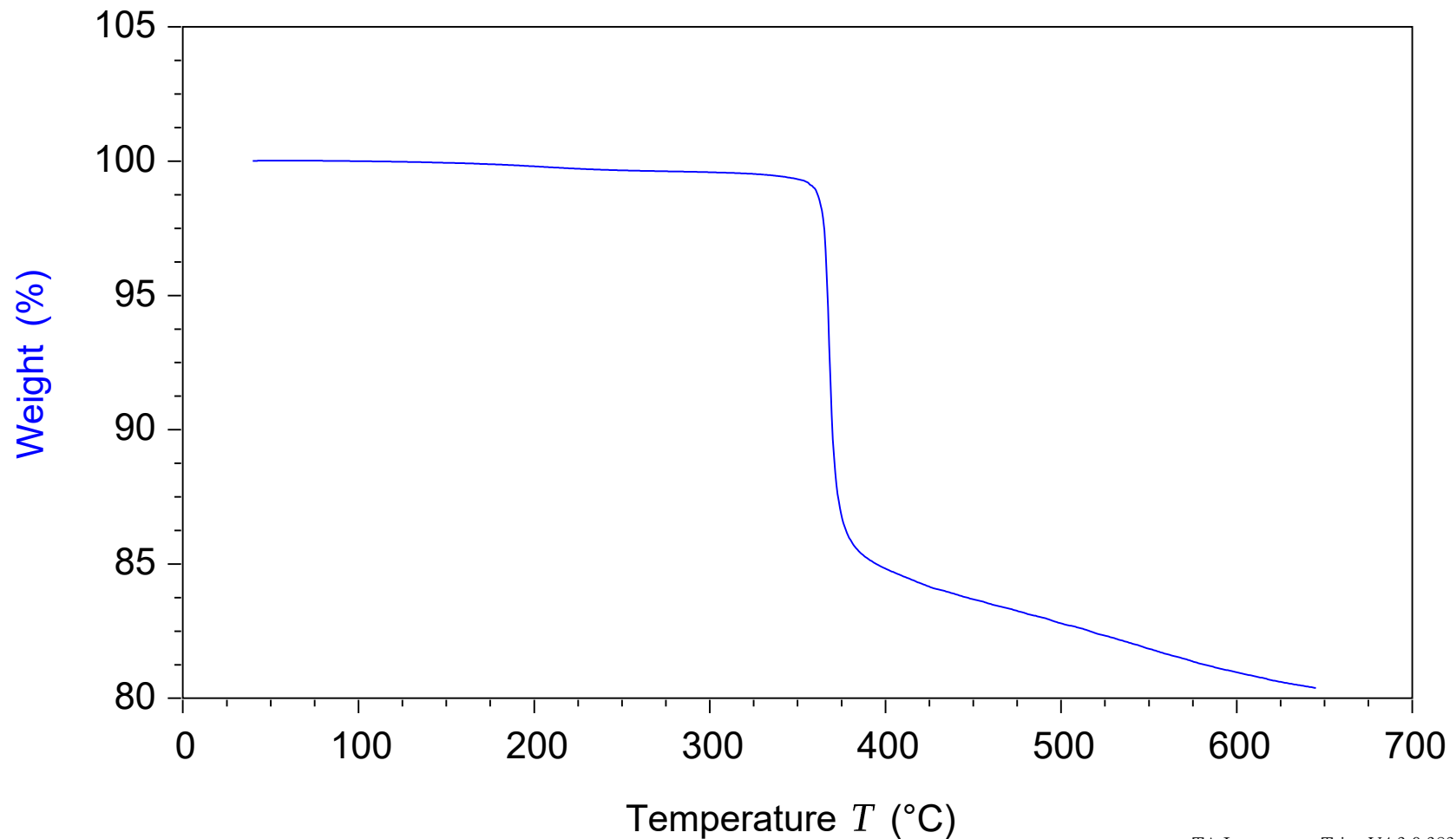
File: \\Aptpis402p\lab\3027J(ID review)\Report\FUS\2018\F180752896\F180752896.TGT.tri

Instrument/Date: TGA550,5/16/2018 6:57:50 PM

Sample Size: 24.1083 mg

Pan type: Platinum HT

Project: F180752896.TGT



TA Instruments Trios V4.3.0.38388

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