



Order No: F180742310
Project No: 1000429419
File No: E248974
Vol No: 1
Issue Date: 2018-04-12

Follow-up Sample Test Report

Contact: Kai Chen

Customer Name: JIANGSU SUNCHEM NEW MATERIALS CO LTD

Address: 1313 West Binjiang Rd
Jiangyin Jiangsu
214446
CN

Manufacturer: JIANGSU SUNCHEM NEW MATERIALS CO LTD

Address: 1313 West Binjiang Rd
Jiangyin Jiangsu
214446
CN

Product Category: QMFZ2

Product Description: Plastics - component

Model Number(s): C1(a)

Inspection Date: 2018-03-15

UL Contact: VICKY KUO at +886277373639, Ext. 2639, or via email at FUSAdmin.TPI@ul.com.

Statement of Results

General Information for FUS Project

Test Name	Test Result
Model No.	C1(a)
Color	NC
Form	Foam
Expected Thickness	8.1 mm
IR Reference Date	T07-28-04(TC1735)
TGA Reference Date	02-04-04
DSC Reference Date	07-26-04
Original HBF Flame Rating	HF-1
Original Min. Density	20.000 kg/m ³
Original Max. Density	24.400 kg/m ³



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Master Reporting Summary 8.1 mm

Test Name	Test Result
UL94 Horizontal Burning Foamed Material	HF-1
UL746A Density Determination	22.196 kg/m ³
UL746A Infrared Spectroscopy (IR)	Yes
UL746A Thermogravimetry (TGA)	Yes
UL746A Diff. Scanning Calorimetry (DSC)	Yes

DENSITY DETERMINATION (As Received)

Test Name	Test Result
Thickness	8.2350 mm
Thickness	8.3140 mm
Thickness	8.2140 mm
Length	150.4200 mm
Length	150.4600 mm
Length	150.4900 mm
Width	49.2900 mm
Width	49.3800 mm
Width	49.3100 mm
Thickness (avg)	8.2543 mm
Length (avg)	150.4567 mm
Width (avg)	49.3267 mm
Weight	1.3820 g
Density	22.56 kg/m ³



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DENSITY DETERMINATION (As Received)

Test Name	Test Result
Thickness	8.6610 mm
Thickness	8.7390 mm
Thickness	8.7010 mm
Length	150.4000 mm
Length	150.3000 mm
Length	150.4700 mm
Width	48.0700 mm
Width	48.3100 mm
Width	48.6200 mm
Thickness (avg)	8.7003 mm
Length (avg)	150.3900 mm
Width (avg)	48.3333 mm
Weight	1.4201 g
Density	22.46 kg/m ³

DENSITY DETERMINATION (As Received)

Test Name	Test Result
Thickness	8.5930 mm
Thickness	8.5440 mm
Thickness	8.5240 mm
Length	150.4100 mm
Length	150.2600 mm
Length	150.0600 mm
Width	50.7700 mm
Width	50.7000 mm
Width	50.7300 mm
Thickness (avg)	8.5537 mm
Length (avg)	150.2433 mm
Width (avg)	50.7333 mm
Weight	1.4065 g
Density	21.57 kg/m ³



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FUS Infrared Spectroscopy

Test Name	Test Result
IR Conformance	Yes

FUS TGA Analysis

Test Name	Test Result
TGA Conformance	Yes

FUS DSC Analysis

Test Name	Test Result
DSC Conformance	Yes

HORIZONTAL BURNING FOAMED MATERIAL TEST (As Received)

Test Name	Test Result
Specimen Number	1
Thickness	7.8570 mm
After Flame Time (T1)	0.0 s
After Glow Time (t2)	0.0 s
t1+t2	0 s
Damaged Length (L1_2)	24.0 mm
Burning Duration - beyond 25mm	N/A s
Damaged Length - beyond 25mm	0.0 mm
Burning Rate	N/A mm/min
Observation (X1)	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined



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HORIZONTAL BURNING FOAMED MATERIAL TEST (As Received)

Test Name	Test Result
Specimen Number	2
Thickness	7.9370 mm
After Flame Time (T1)	0.0 s
After Glow Time (t2)	0.0 s
t1+t2	0 s
Damaged Length (L1_2)	24.0 mm
Burning Duration - beyond 25mm	N/A s
Damaged Length - beyond 25mm	0.0 mm
Burning Rate	N/A mm/min
Observation (X1)	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined

HORIZONTAL BURNING FOAMED MATERIAL TEST (As Received)

Test Name	Test Result
Specimen Number	3
Thickness	7.9320 mm
After Flame Time (T1)	0.0 s
After Glow Time (t2)	0.0 s
t1+t2	0 s
Damaged Length (L1_2)	24.0 mm
Burning Duration - beyond 25mm	N/A s
Damaged Length - beyond 25mm	0.0 mm
Burning Rate	N/A mm/min
Observation (X1)	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined



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HORIZONTAL BURNING FOAMED MATERIAL TEST (As Received)

Test Name	Test Result
Specimen Number	4
Thickness	8.0120 mm
After Flame Time (T1)	0.0 s
After Glow Time (t2)	0.0 s
t1+t2	0 s
Damaged Length (L1_2)	24.0 mm
Burning Duration - beyond 25mm	N/A s
Damaged Length - beyond 25mm	0.0 mm
Burning Rate	N/A mm/min
Observation (X1)	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined

HORIZONTAL BURNING FOAMED MATERIAL TEST (As Received)

Test Name	Test Result
Specimen Number	5
Thickness	7.9610 mm
After Flame Time (T1)	0.0 s
After Glow Time (t2)	0.0 s
t1+t2	0 s
Damaged Length (L1_2)	24.0 mm
Burning Duration - beyond 25mm	N/A s
Damaged Length - beyond 25mm	0.0 mm
Burning Rate	N/A mm/min
Observation (X1)	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined



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HORIZONTAL BURNING FOAMED MATERIAL TEST (Oven-Aged)

Test Name	Test Result
Specimen Number	1
Thickness	8.1130 mm
After Flame Time (T1)	0.0 s
After Glow Time (t2)	0.0 s
t1+t2	0 s
Damaged Length (L1_2)	24.0 mm
Burning Duration - beyond 25mm	N/A s
Damaged Length - beyond 25mm	0.0 mm
Burning Rate	N/A mm/min
Observation (X1)	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined

HORIZONTAL BURNING FOAMED MATERIAL TEST (Oven-Aged)

Test Name	Test Result
Specimen Number	2
Thickness	7.8080 mm
After Flame Time (T1)	0.0 s
After Glow Time (t2)	0.0 s
t1+t2	0 s
Damaged Length (L1_2)	24.0 mm
Burning Duration - beyond 25mm	N/A s
Damaged Length - beyond 25mm	0.0 mm
Burning Rate	N/A mm/min
Observation (X1)	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined



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HORIZONTAL BURNING FOAMED MATERIAL TEST (Oven-Aged)

Test Name	Test Result
Specimen Number	3
Thickness	7.7050 mm
After Flame Time (T1)	0.0 s
After Glow Time (t2)	0.0 s
t1+t2	0 s
Damaged Length (L1_2)	24.0 mm
Burning Duration - beyond 25mm	N/A s
Damaged Length - beyond 25mm	0.0 mm
Burning Rate	N/A mm/min
Observation (X1)	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined

HORIZONTAL BURNING FOAMED MATERIAL TEST (Oven-Aged)

Test Name	Test Result
Specimen Number	4
Thickness	7.8200 mm
After Flame Time (T1)	0.0 s
After Glow Time (t2)	0.0 s
t1+t2	0 s
Damaged Length (L1_2)	24.0 mm
Burning Duration - beyond 25mm	N/A s
Damaged Length - beyond 25mm	0.0 mm
Burning Rate	N/A mm/min
Observation (X1)	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined



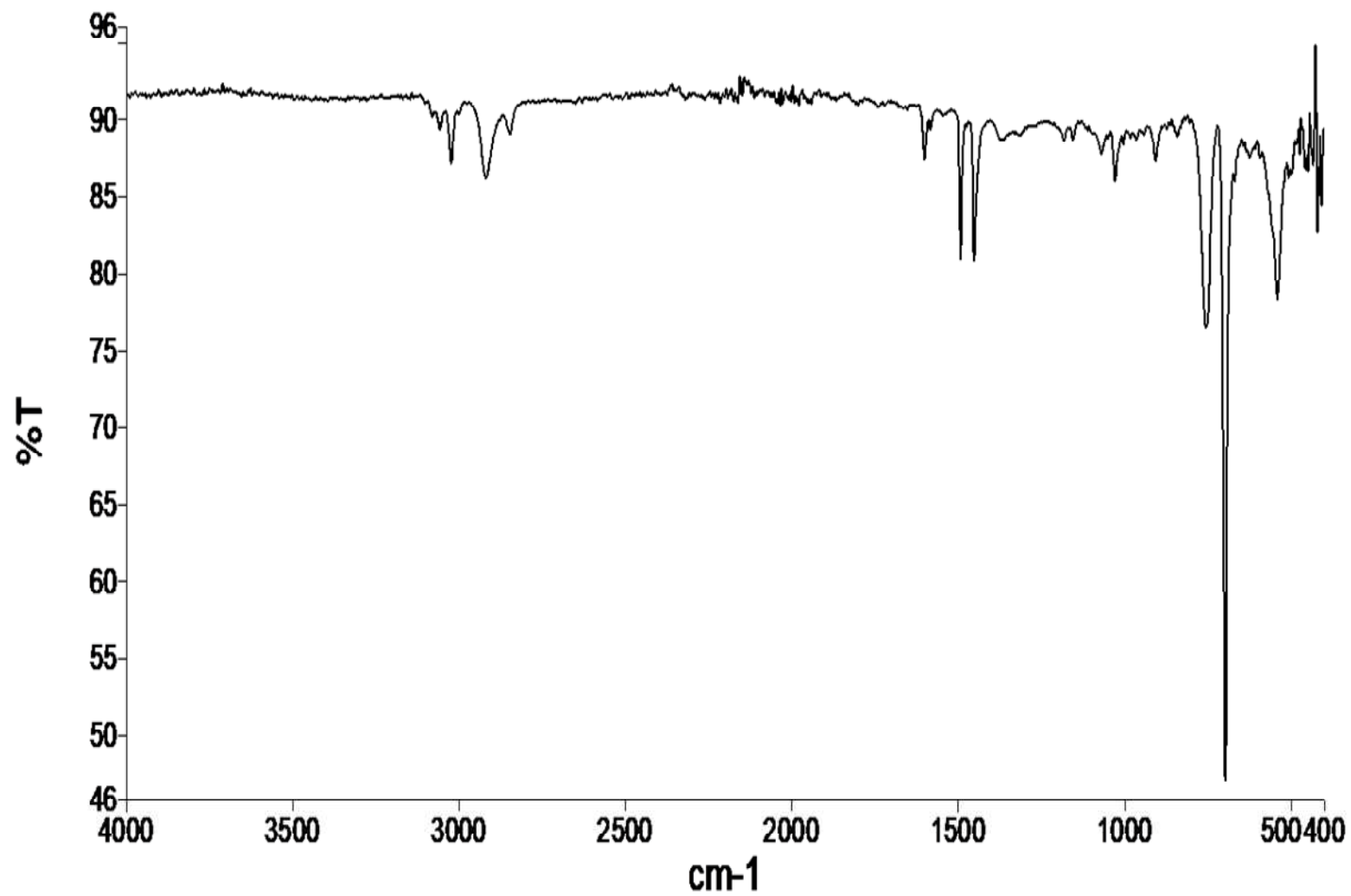
Order No: F180742310
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HORIZONTAL BURNING FOAMED MATERIAL TEST (Oven-Aged)

Test Name	Test Result
Specimen Number	5
Thickness	7.8970 mm
After Flame Time (T1)	0.0 s
After Glow Time (t2)	0.0 s
t1+t2	0 s
Damaged Length (L1_2)	24.0 mm
Burning Duration - beyond 25mm	N/A s
Damaged Length - beyond 25mm	0.0 mm
Burning Rate	N/A mm/min
Observation (X1)	Specimen did NOT drip;Ceased to burn before the 125 mm gauge mark; rate not determined

IR

Sample run using ATR, KRS-5 crystal
material, FTIR instrument



Name

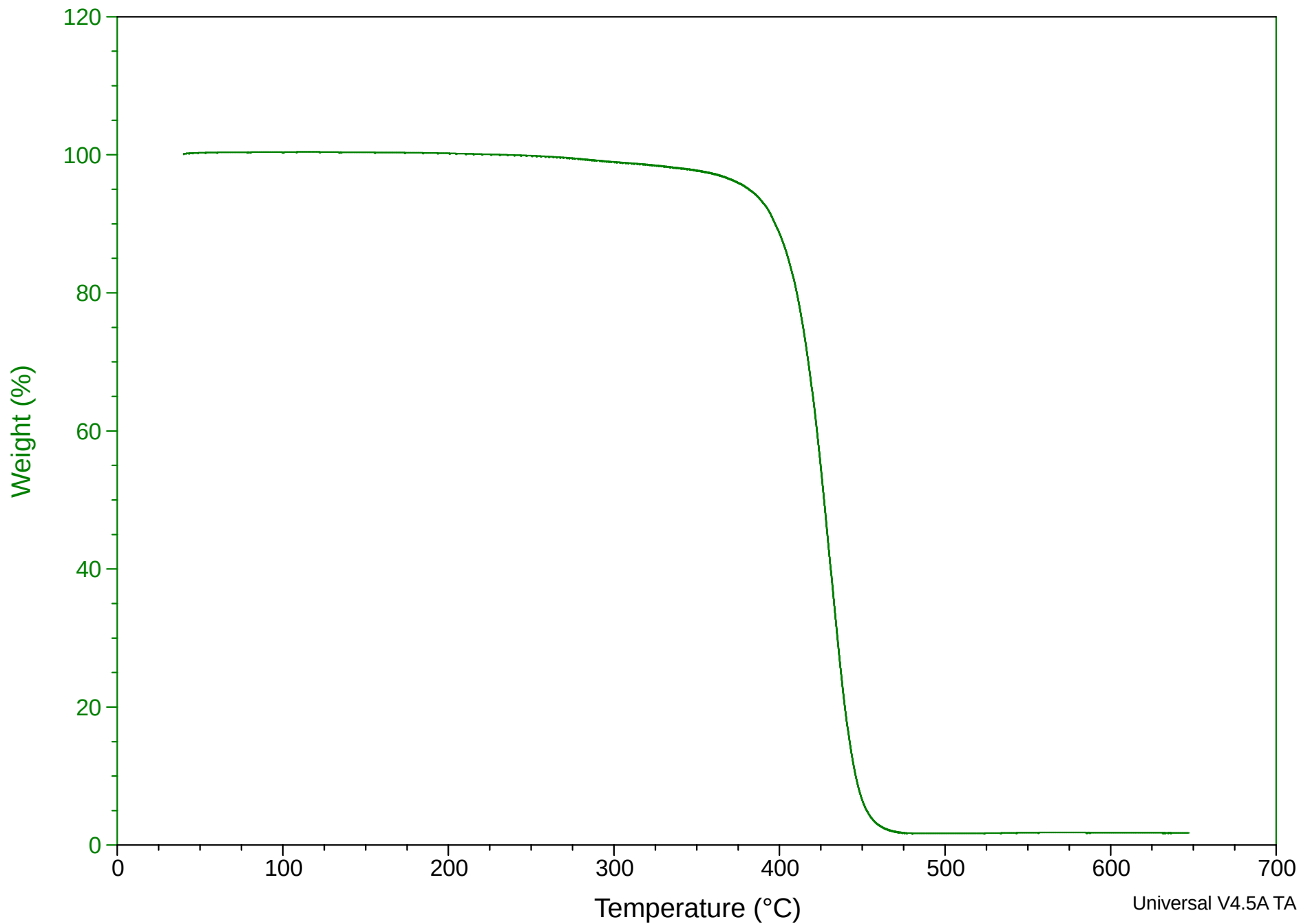
Description

F180742310T(A) E248974,C1(a),20,N,F,NC,O,22/55,MC.(surface side)

Sample: C1(a),PS,NC
Size: 2.6970 mg
Method: 40°C-650°C@20°C/min
Comment: E248974,21°C/55%RH

TGA

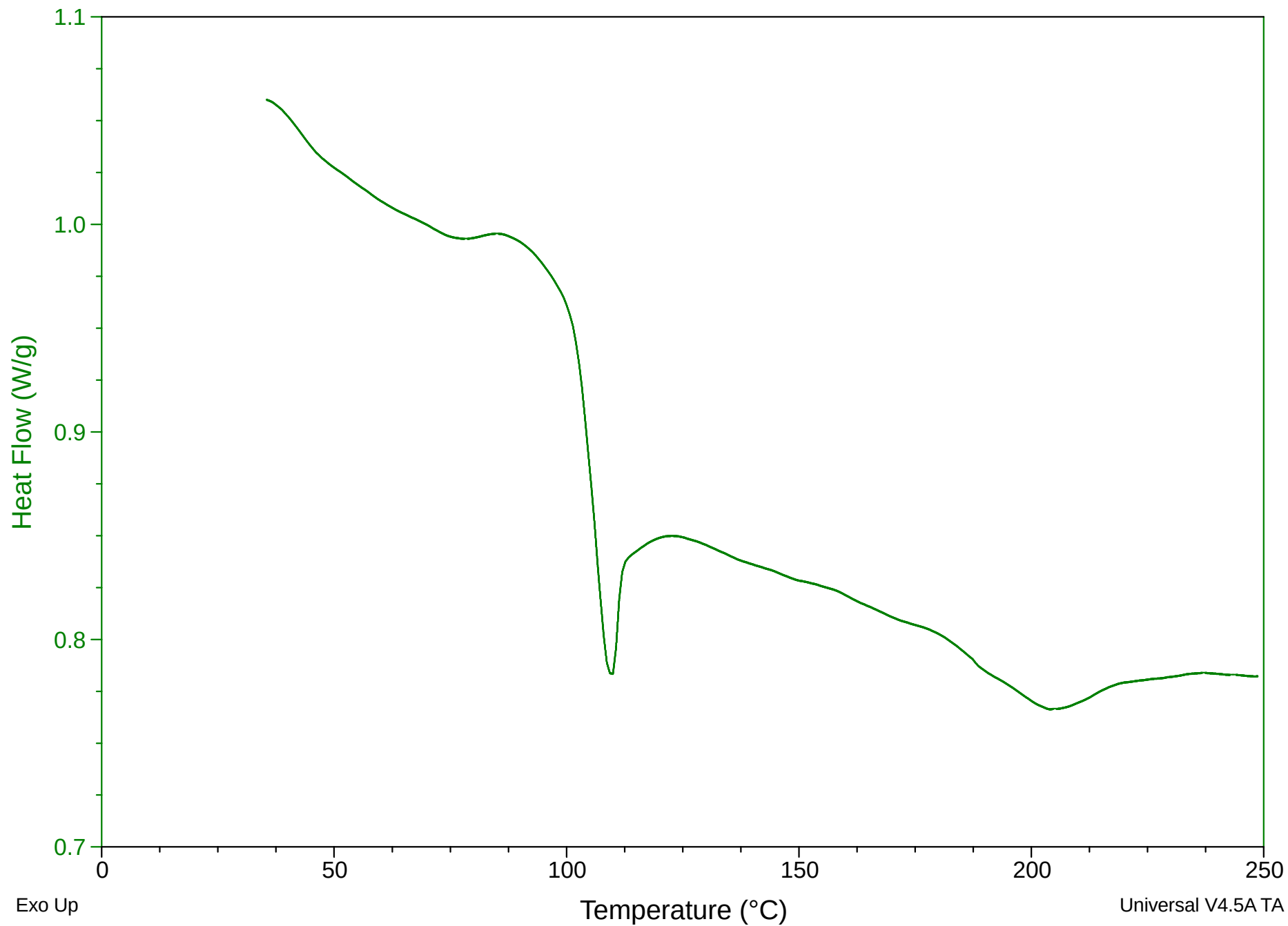
File: \\...\FUS\2018\F180742310\F180742310.TGT
Operator: SC/MC,T,N2@100CCM,WE023
Run Date: 03-Apr-2018 02:48
Instrument: TGA Q500 V20.13 Build 39



Sample: C1(a),PS,NC
Size: 1.6500 mg
Method: 20oC/min-250oC
Comment: E248974,22°C/55%RH

DSC

File: \\...\FUS\2018\F180742310\F180742310.DST
Operator: MT,T,N2@50CC/MIN,DS004
Run Date: 09-Apr-2018 09:51
Instrument: DSC Q2000 V24.11 Build 124



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