DTL REPORT NUMBER
100250006

Since 1903

DETROIT TESTING LABORATORY, INC.

PREPARED FOR
AMERITYRE CORPORATION, INC.
1501 INDUSTRIAL ROAD
BOULDER CITY NV 89005

ATTENTION
JIM MOORE

CUSTOMER PURCHASE ORDER NUMBER
2204

REPORT DATE
FEBRUARY 24, 2010

Detroit Testing Laboratory, Inc.
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REPORTED / APPROVED BY:

DETROIT TESTING LABORATORY, INC.

David Smith, Department Manager
Materials Testing

Timothy R. Geiger, Group Manager
Materials Testing

DS/TRG/jed

PURPOSE

The purpose of this test report is to present the test results obtained during the performance of a test program. This report includes a brief description of the samples presented for test, a list of the documents presented as test instructions, and a summary of the testing performed and the results obtained. Applicable requirements and conclusions are based on the criteria provided by our client, or as specified in the reference document(s).

WORK REQUESTED / REFERENCE DOCUMENT(s)

Material Testing per customer test matrix (undated) as follows:

Hardness, ASTM D 2240-05
Specific Gravity, ASTM D792-00
Tensile Properties, ASTM D412-06
Tear Strength, ASTM D624-00 (die C)
Tear Strength, ASTM D624-00 (Trouser Method)
Rebound, ASTM D2632-01
Compression Set, ASTM D395-03, Method B
Glass Transition, ASTM D3418-03 (DSC)
Compression Deflection, ASTM D575-91
Melting Point, ASTM D3418-03 (DSC)

SAMPLE DESCRIPTION

One (1) material identified as FLIT 004 (F-4); six (6) 12” x 12” slabs and six (6) buttons

SAMPLE CONDITIONING

Prior to testing, the samples were conditioned at 23 °C ±2 °C and 50% ±5% relative humidity, as applicable.

TESTING PERFORMED

HARDNESS, ASTM D 2240-05

Procedure — Shore A
Number of Piles: 3
Conveloader
Nominal Thickness: 0.3365 inches
Reading Instantaneous

Results — 80 points

Requirements — No specific criteria provided

Conclusion — To be determined by Amerityre Corporation, Inc.

SPECIFIC GRAVITY, ASTM D792-00

Results — 1.16

Requirements — No specific criteria provided

Conclusion — To be determined by Amerityre Corporation, Inc.

TENSILE PROPERTIES, ASTM D412-06

Results — See Attached Data

Maximum Tensile Strength (MPa)	Elongation @ Break (%)
15.9	433

Requirements — No specific criteria provided

Conclusion — To be determined by Amerityre Corporation

TEAR STRENGTH, ASTM D624-00 (DIE C)

Results See Attached Data

Maximum Tear Strength (kN/m)
41.1

Requirements No specific criteria provided

Conclusion To be determined by Amerityre Corporation, Inc.

TEAR STRENGTH, ASTM D624-00 (TROUSER METHOD)

Results

Maximum Tear Strength (kN/m)
15.3

Requirements No specific criteria provided

Conclusion To be determined by Amerityre Corporation, Inc.

REBOUND, ASTM D2632-01

Results

Specimen	Resilience values
1	16%
2	16%
3	19%

Requirements No specific criteria provided

Conclusion To be determined by Amerityre Corporation, Inc.

COMPRESSION SET, ASTM D395-03, METHOD B

Results

Specimen Number	Initial Thickness (in)	Final Thickness (in)	Spacer Thickness (in)	Compression Set C_t %
1	0.235	0.2065	0.177	12.128
2	0.238	0.2085	0.177	12.395
3	0.237	0.2065	0.177	12.869
Average				12.5

Requirements No specific criteria provided

Conclusion To be determined by Amerityre Corporation, Inc.

GLASS TRANSITION PER ASTM D3418-03 (DSC)

Results See Attached Scan
Glass Transition Temperature: -23.2 °C

Requirements No specific criteria provided

Conclusion To be determined by Amerityre Corporation, Inc.

COMPRESSION DEFLECTION, ASTM D575-91

Results See Attached Data

Compression Stress						
@2% Strain (kPa)	@5% Strain (kPa)	@10% Strain (kPa)	@15% Strain (kPa)	@20% Strain (kPa)	@25 Strain (kPa)	@50% Strain (kPa)
395	968	1840	2690	3540	4470	12500

Requirements No specific criteria provided

Conclusion To be determined by Amerityre Corporation, Inc.

MELTING POINT PER DSC

Results See Attached Scan
Melting Point: No crystalline melting point up to 300 °C

Requirements No specific criteria provided

Conclusion To be determined by Amerityre Corporation, Inc.

SAMPLE DISPOSITION

Samples will be retained at Detroit Testing Laboratory, Inc. for 30 days and then disposed of, unless otherwise specified by client.

TEST EQUIPMENT

Detroit Testing Laboratory, Inc.'s calibration system meets the requirements of ISO 17025:2005.

Sartorius; Analytical Balance, M/N R 160PD20, ID: 04679, calibrated to: 4/10
DuPont Instruments; Differential Scanning Colorimeter M/N DSC 2910; ID: 07282, calibrated to: 5/10
B.C. Ames: Bench Comparator, M/N 05-0061, ID: 11319, calibrated to: 8/10
Fluke Hydra; Data Logger, S/N 5624653, ID: 10890, calibrated to: 2/10
Blue M Electric Co.; Stabil-Therm Constant Temperature Cabinet (Oven #4), M/N OV-500C-2, ID: 06050, calibrated to: no cal required
36" Stainless Steel Ruler, ID: 11246, calibrated to: 11/10
A&D Co. Ltd.; Heavy Duty Balance, M/N E/K-12KA, ID: 07357, calibrated to: 6/10
Shore Instrument Co; Resiliometer, M/N SRI-74000, ID: 07989, calibrated to: no cal required
Sartorius; Analytical Balance, M/N B120S, ID: 04678, with Sartorius-Data Control, ID: 07246, calibrated to: 5/10
Mitutoyo Corp, Digital Caliper, M/N CD-6", ID: 05311, calibrated to: 4/10
Shore Instrument Co; Hardness Tester Durometer type A, ID: 07682, calibrated to: 7/10
Instron Corp; Load Cell (5 kN), M/N 2518-805, ID: 07063, calibrated to: 7/10
Mitutoyo Corp, Digital Caliper, M/N CD-6", ID: 09278, calibrated to: 4/10
Instron Corp; Tensile/Compression Machine, M/N 4505, ID: 07095, calibrated to: 7/10
Instron Corp; Load Cell (1 kN), M/N 2518-806, ID: 07881, calibrated to: 7/10

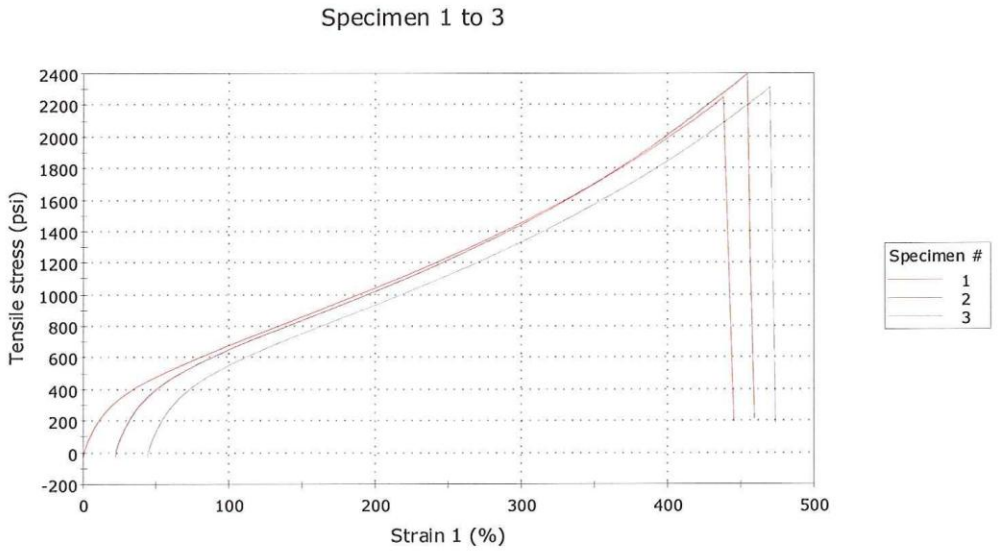
Tensile Strength and Elongation per ASTM D412-06

Sample file name: Amerityre 10025006 Tensile & Elongation.is_tens

Amerityre Corporation
Job# 100250006
Tested by Ty Filipiak
Lab Conditions: 23°C & 51%rh

Nominal Specimen Dimension: 6mm x 3mm
Test Speed: 500mm/min.
Extensometer Gauge Length: 25mm
Sample Type: FLIT 004
Specimens: Die Cut (ASTM D412)

Date: Tuesday, February 16, 2010
Graph 1



	Maximum Tensile Strength (lbf)	Maximum Tensile Strength (psi)	Maximum Tensile Strength (MPa)	Elongation @ Break (%)
1	62.4	2250	15.5	437
2	68.1	2400	16.5	433
3	65.7	2310	15.9	425
Median	65.7	2310	15.9	433
Standard Deviation	2.86	73.21	0.50	6.38

Detroit Testing Laboratory

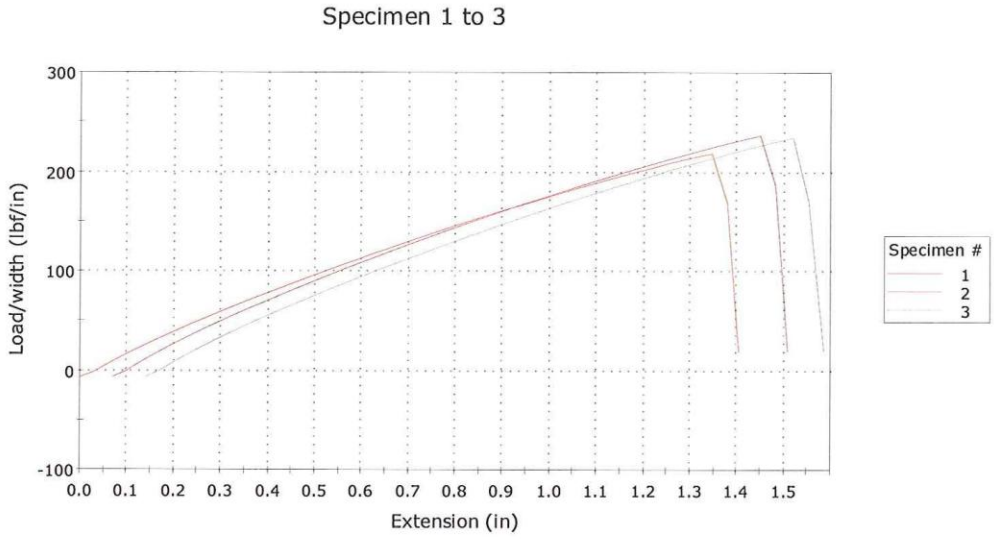
Amerityre 10025006 Tear Strength.is_ptf

Tear Strength per ASTM D624-00
Amerityre Corporation
Job# 100250006
Tested by: Ty Filipiak
Specimen Conditioning: Ambient
Test Speed: 500mm/min

Material Type: FLIT 004 (F-4)

Date: Tuesday, February 16, 2010

Graph 1



	Maximum Tear Strength (N)	Maximum Tear Strength (lbf/in)	Maximum Tear Strength (kN/m)
1	121	219	38.4
2	125	237	41.5
3	123	235	41.1
Median	123	235	41.1
Standard Deviation	1.9	9.8	1.7

Amerityre 100250006 Comp Force Deflection_1.is_comp

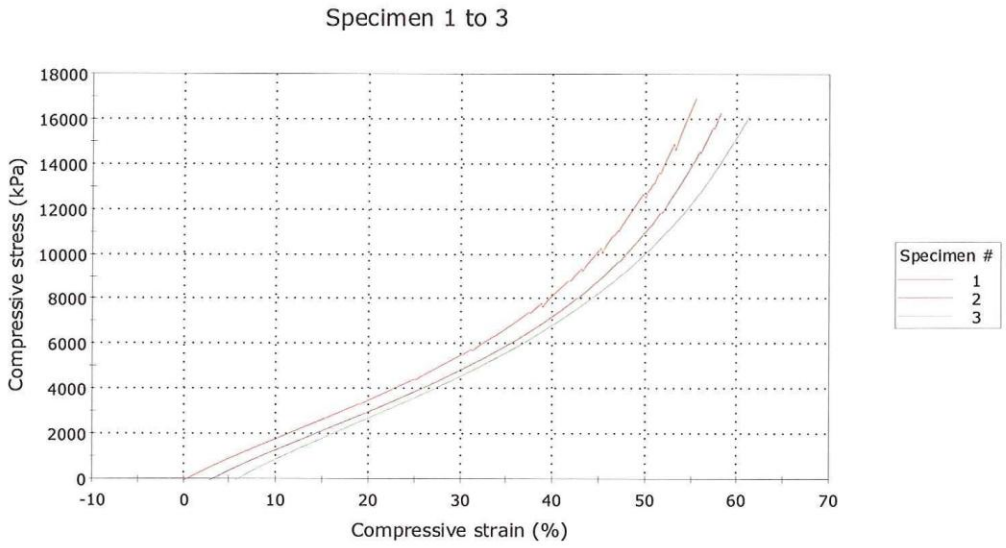
Detroit Testing Laboratory Inc.

Compression Deflection per ASTM D575-91

Amerityre Corporation Inc.
Job# 100250006
Tested By: Ty Filipiak
Part Conditioning: 48hrs Ambient
Test Conditions: 23°C & 52% rh
Material Type: Molded Urethane Bottons
Material ID: FLIT 004 (F-4)
Specimen Dimensions (Nominal): Diameter 29mm x Height 12mm
Test Speed: 12mm/min.
Specimen Preload: 5 N
Test Deviation: No preflexs per J.Moore 2/11/2010

Last test date: Thursday, February 11, 2010

Graph 1

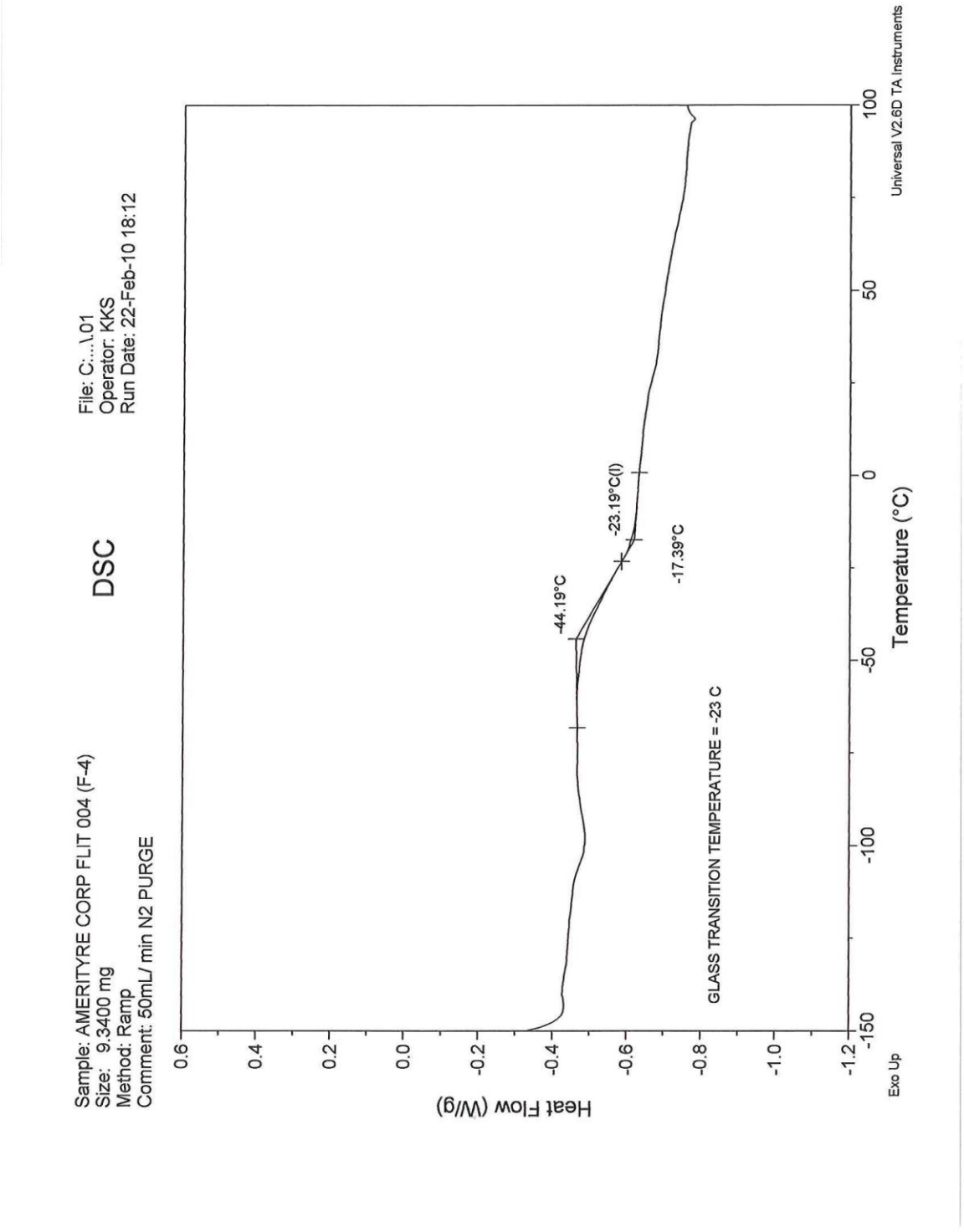


Results Table 1

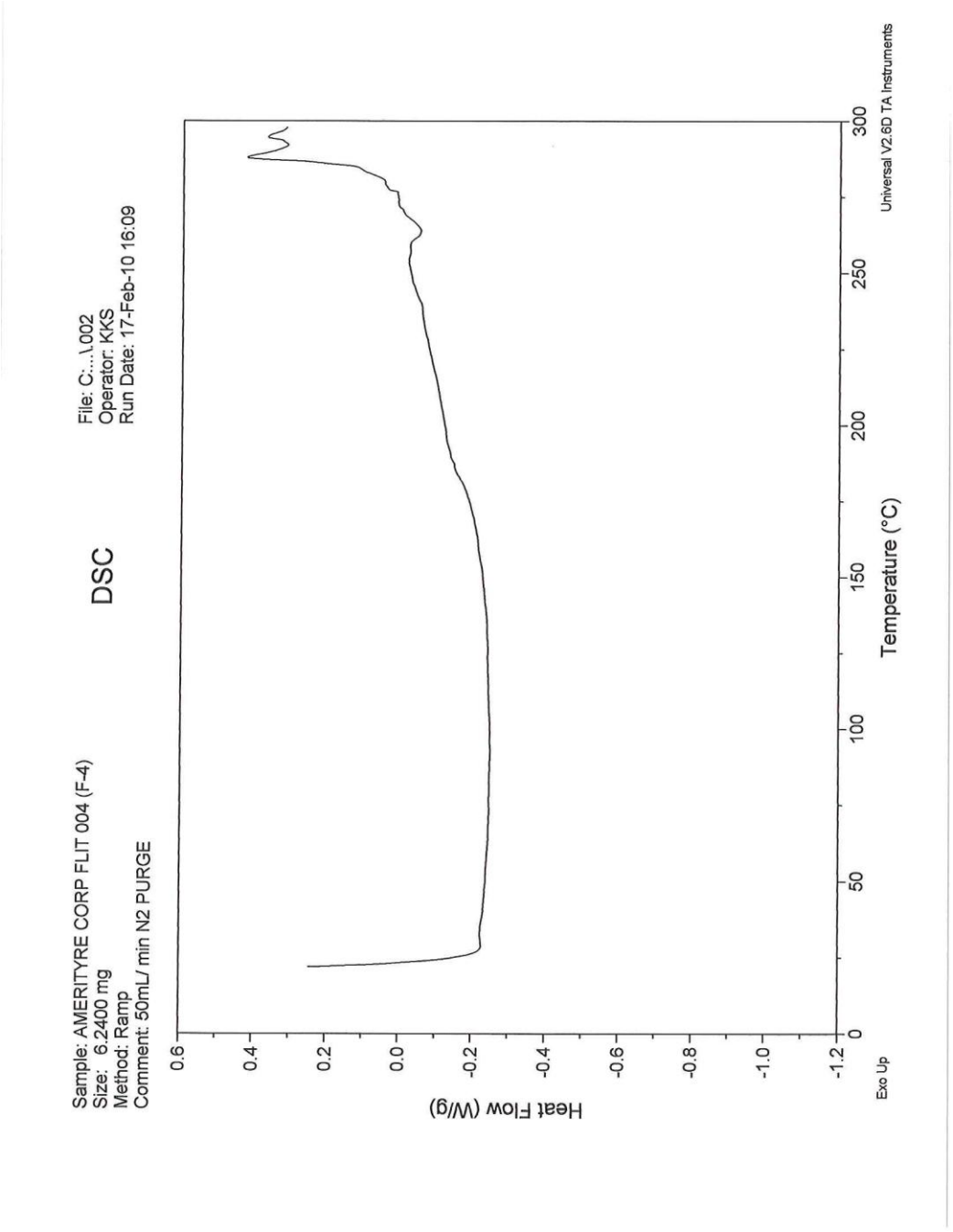
	Comp. Stress @ 2% Strain (kPa)	Comp. Stress @ 5% Strain (kPa)	Comp. Stress @ 15% Strain (kPa)	Comp.Stress @ 10% Strain (kPa)
1	395	968	2690	1840
2	389	955	2650	1810
3	439	1050	2850	1960
Median	395	968	2690	1840
Standard Deviation	27.1	48.7	105.9	77.6

	Comp. Stress @ 20% Strain (kPa)	Comp. Stress @ 25% Strain (kPa)	Comp. Stress @ 50% Strain (kPa)
1	3540	4470	12500
2	3510	4430	12500
3	3750	4720	12600
Median	3540	4470	12500
Standard Deviation	128.2	153.7	42.9

Glass Transition:



Melt Point:


DSC
File: C:...\002
Operator: KKS
Run Date: 17-Feb-10 16:09
Sample: AMERITYRE CORP FLIT 004 (F-4)
Size: 6.2400 mg
Method: Ramp
Comment: 50mL/ min N2 PURGE
Universal V2.6D TA Instruments
Heat Flow (W/g)
Temperature (°C)
Exo Up
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
0
50
100
150
200
250
300