

August 15, 2016

**TEST REPORT**

**PN 130403**  
PO CC

**Chemical Analytical Services**

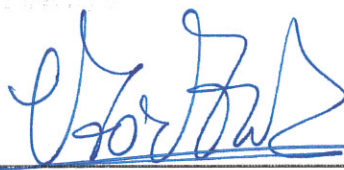
Prepared For:

Ms. Carrie McCrory  
**Savvy Rest**  
4414 Ivy Commons  
Charlottesville VA 22903

Prepared by:

  
**W. Matthews Ruff**  
Chemical Technician

Approved by:

  
**Ana C. Barbur, Manager**  
Chemical, Pharmaceutical and Microbiological Services

Rev 041916



An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02  
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**ISO 9001:2008**  
Registered

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August 15, 2016  
 Ms. Carrie McCrory  
 Savvy Rest

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 PN 130403

**Subject:** Analytical testing on samples submitted by the above referenced customer

**Received:** Two (2) pieces of foam rubber identified as: Savvy 02 – Dunlop Foam and Talalay 2992 – Talalay Foam

**THERMOGRAVIMETRIC ANALYSIS (TGA); ASTM E 1131**

Instrument: Perkin Elmer TGA  
 Gas Purge: Nitrogen, then switch to air at 550°C  
 Temperature Program: Heat 25 to 850°C at 10°C/min

TGA testing was performed following the test conditions listed above. The TGA plot with calculations is enclosed. In a typical rubber compound, the Highly Volatile equates approximately to oils, process aids, plasticizers, etc; Medium Volatile to polymer(s); Combustible to carbon black; Ash to inorganics.

**TABLE 1 - THERMOGRAVIMETRIC ANALYSIS (TGA)**

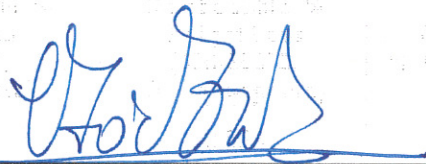
SAMPLE	Highly Volatile, % Weight Loss (25-325°C, N <sub>2</sub> atmosphere)	Medium Volatile, % Weight Loss (325-550°C, N <sub>2</sub> Atmosphere)	Combustible, % Weight Loss (550-850°C, O <sub>2</sub> Atmosphere)	Ash, % Weight
Talayay 2992 – Talalay Foam	8.035	87.628	0.526	3.955
Savvy 02 – Dunlop Foam	8.102	84.735	0.774	6.424

Prepared by:



**W. Matthews Ruff**  
 Chemical Technician

Approved by:

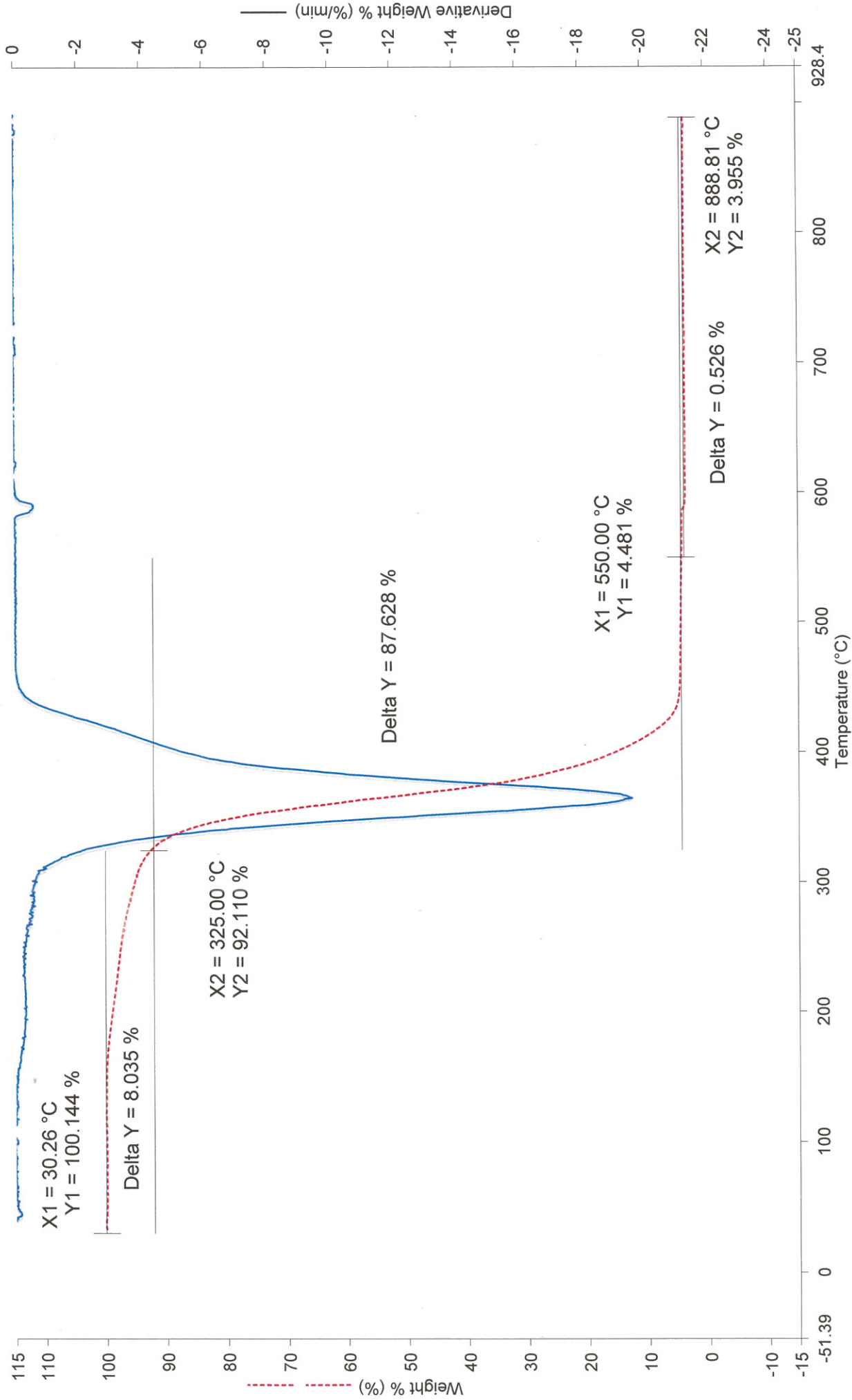


**Ana C. Barbur, Manager**  
 Chemical, Pharmaceutical and Microbiological Services

PN 130403  
 WMR/AB/tkr

\*ARDL is ISO 17025 accredited by A2LA for the test methods listed on the certificates referenced on page one. NOTE: Non-ISO 17025 accredited test methods are designated with the ^ symbol to differentiate from ISO 17025 accredited methods in the body of the test report.\*

Filename: C:\Prog...\PN130403 Savvy; Talalay 2992.t6d  
Operator ID: WMR  
Sample ID: Talalay 2992  
Sample Weight: 3.345 mg  
Comment: PN130403 Savvy; Talalay 2992

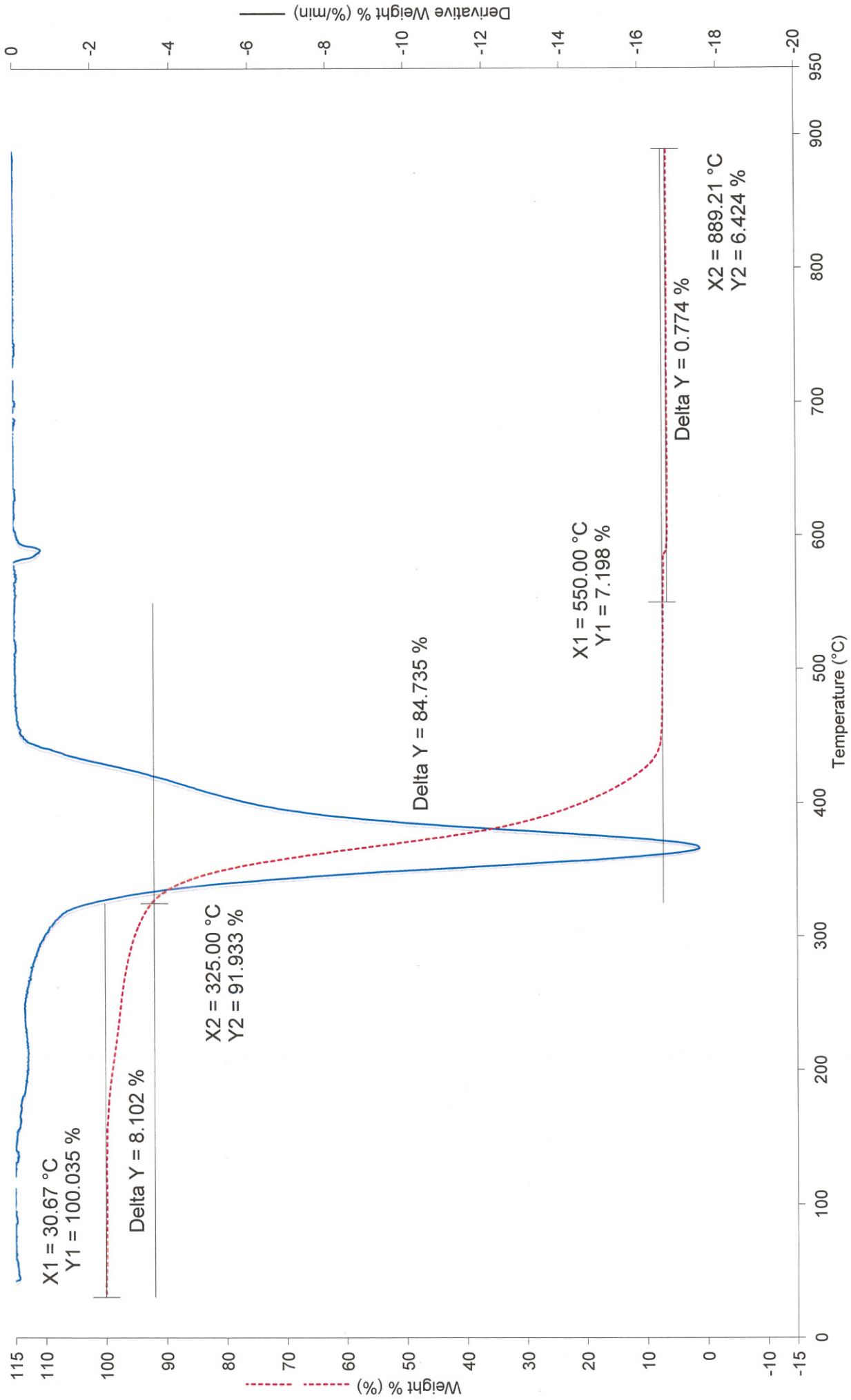


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- 1) Heat from 30.00°C to 500.00°C at 10.00°C/min
- 2) Heat from 500.00°C to 850.00°C at 10.00°C/min
- 3) Heat from 850.00°C to 860.00°C at 10.00°C/min



Filename: C:\Program ... \PN130403 Savvy; Savvy 02.t6d  
 Operator ID: WMR  
 Sample ID: Savvy 02  
 Sample Weight: 4.656 mg  
 Comment: PN130403 Savvy; Savvy 02



8/12/2016 3:51:37 PM

- 1) Heat from 30.00°C to 500.00°C at 10.00°C/min
- 2) Heat from 500.00°C to 850.00°C at 10.00°C/min
- 3) Heat from 850.00°C to 860.00°C at 10.00°C/min



Savvy Q2

Talalay 2992