



# The Bombay Textile Research Association

Lal Bahadur Shastri Marg, Ghatkopar (West), Mumbai - 400 086

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## BTRA TEST LABORATORIES TEST REPORT

Report Details : **BTL/TR/2204400/MWO/1/2022 dtd 04/08/2022** ULR No.: TC694122000004400P  
 Customer : Ganapati Acoustics Total Number of Samples in Order :1  
 602, Parmeshwari Centre, Pandit Madan Mohan Date of performance of test :29/07/2022  
 Malviya Marg, Mulund (W), Mumbai-400080 IN- To  
 Reference : Letter Dtd. 28/07/2022 04/08/2022  
 Received on : 29/07/2022  
 Despatched on :

<b>SAMPLE NO.</b>	2204400/MWO/1
<b>SAMPLE MARK</b>	Para Aramid Pulp

## TEST RESULTS

**Test : Thermogravimetric Analysis (TGA)**

**Equipment Used : TA Instrument SDT Q600**

**Crucible : Alumina**

**Temp Range : R. T. °C-700°C**

**Heating Rate : 20°C/min**

**Atmosphere : Nitrogen**

**Sample Weight : 4.65 mg**

**Result :**

SAMPLE NAME	Weight Loss (%)		Residue (%)
	Step-2	Step-2	
2204400	2.103 26.02°C-200°C	60.23 (200°C-690.4°C)	37.67

### Test 2 : FTIR Analysis:

Method: Miracle ATR

Procedure: The sample was placed on Miracle ATR and scanned on FTIR range 4000cm<sup>-1</sup> to 600cm<sup>-1</sup> respectively. An average of 8 scans was recorded.

Results: IR scan of coating shows presence of functional group of Aramid.

**Conclusion:** The FTIR scan shows functional group of Aramid and the TGA shows the maximum peak decomposition at 595°, Which indicates that the material is Para Aramid.

Encl:Thermogram and Scans

Chandrakala Madichetty  
(Authorised Signatory)



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<b>SAMPLE NO.</b>	2204400/MWO/1
<b>SAMPLE Mark</b>	Para Aramid Pulp

## TEST RESULTS

**Test Name** : FTIR Analysis

**METHOD:** MIRACLE ATR

**PROCEDURE:** The sample was placed on Miracle ATR and scanned on FTIR range 4000cm<sup>-1</sup> to 600cm<sup>-1</sup> respectively. An average of 8 scans was recorded

**RESULTS:** IR scan of coating shows presence of functional group of Para aramid.

**Encl:** FTIR Scan

\*\*\* End of the Report \*\*\*

Chandrakala Madichetty  
(Authorised Signatory)

Samples are not drawn by the Laboratory. The test results relate only to the item tested. This report shall not be used for litigation or publicity.

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BL/04/2015

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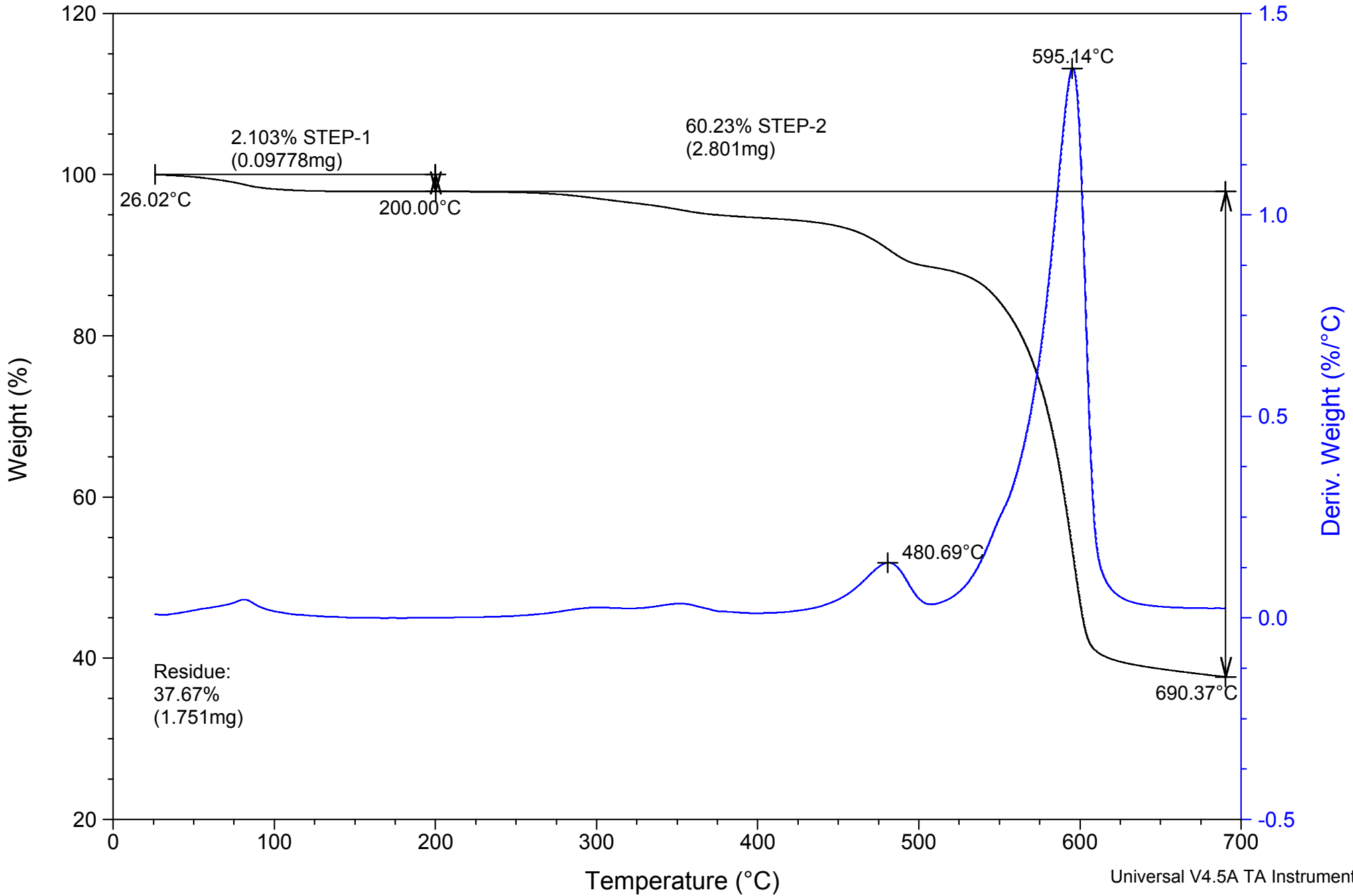
Sample: 2204400 PARA ARAMID PULP  
Size: 4.6500 mg  
Method: Ramp

# DSC-TGA

File: C:\...\2204400 PARA ARAMID PULP.001

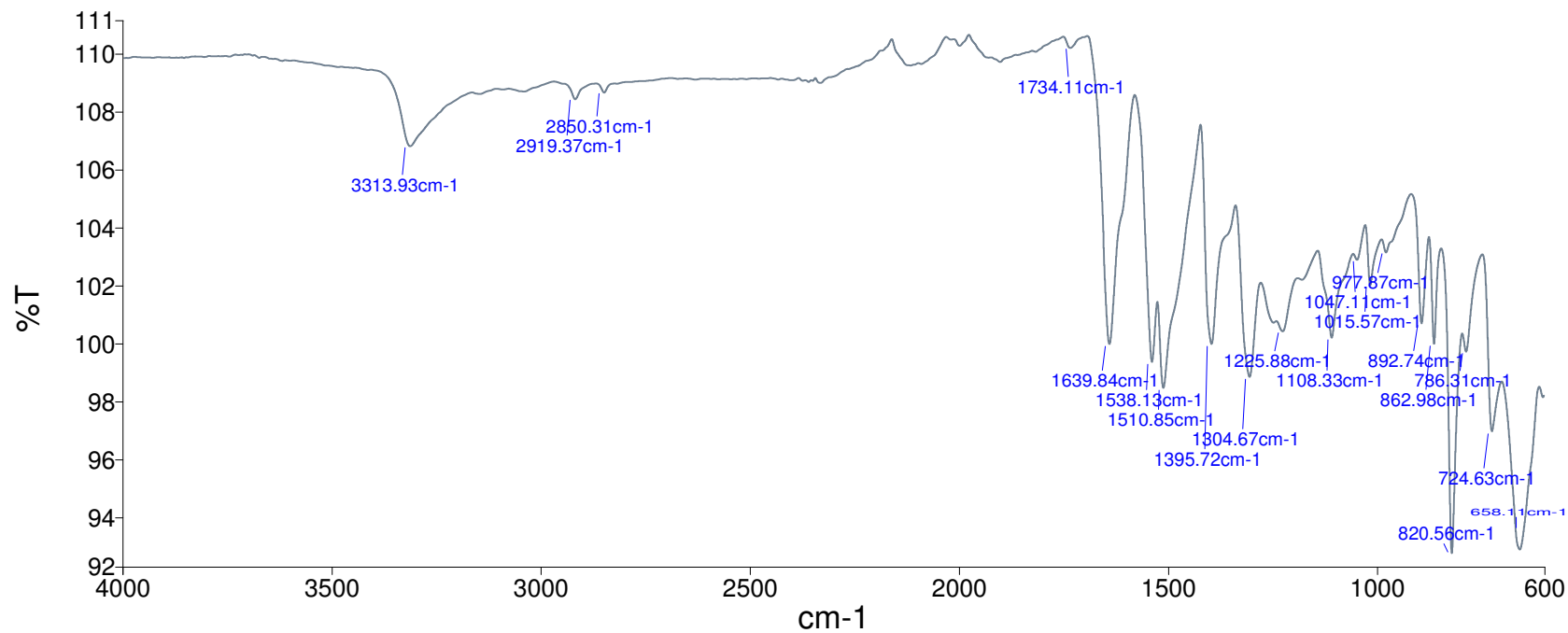
Run Date: 03-Aug-2022 14:00

Instrument: SDT Q600 V20.9 Build 20



Analyst  
Date

PEService  
Wednesday, August 03, 2022 3:47 PM



Sample Name
2204400 PARA ARAMID PULP