

INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY
Sophisticated Analytical Instrument Facility (SAIF)

ANALYSIS REQUEST FORM AND SAFETY DATA SHEET – **DMA**
User Type: IITB/ EXTERNAL (University/National Lab/R & D /Industry)

| | |
|------------------------------------|--------------------|
| Name of the User: | Name of Guide/ PI: |
| Email: | Email: |
| Contact No: | Contact No.: |
| Name of Institute/Organization: | |
| Address of Institute/Organization: | |

1. Number of Samples:-
2. Heating Program:- (Add more rows if required OR attach a separate sheet)
Initial Temperature = _____ deg C
Final Temperature = _____ deg C
3. Heating Rate:- All samples will be done @ 2 deg C per min.
4. Nature of samples:- Metal/Rubber/Elastomers/Composite/Thermoplastic/ others
5. Measurement Mode:- Please tick the required mode.
(i) 3 Point Bending (ii) Single/ Dual cantilever (iii) Tension (iv) Compression (v) Shearing
6. Parameters:-
 - i. Force :- _____ N (Max- 12N)
 - ii. Frequency:- _____ Hz
 - iii. Amplitude:- _____ μm
 - iv. Atmosphere:- Nitrogen / Air (Please tick any one.)
 - v. Young's Modulus:- _____ GPa (If it is known)
7. Dimensions of the samples:- Please refer to the Table below
(i) Length _____ mm
(ii) Width _____ mm
(iii) thickness _____ mm
8. Required Sample Dimensions for Submission for different measurement modes:-

| | Mode | Length/diameter | Width | Thickness/Height |
|----|------------------------------|-----------------|---------|------------------|
| 1. | Tension | 18-20 mm | 4-6 mm | < 6 mm |
| 2. | Single Cantilever Bending | 30-40 mm | < 12 mm | < 5 mm |
| 3. | Double Cantilever Bending | 55-60 mm | < 12 mm | < 5 mm |
| 4. | 3-point bending | 55-60 mm | < 12 mm | < 8 mm |
| 5. | Shear mode with flat surface | 15 mm | 15 mm | < 6 mm |
| 6. | Compression and penetration | 15 mm | --- | < 8 mm |

9. All the samples submitted should be cut uniformly as per the given dimensions
10. All Samples will be discarded within 7 days of analysis. If you wish to collect the samples then you are required to make arrangement for the same. SAIF office will not dispatch the same to users under any circumstances.

Declaration

I confirm that the samples submitted for analysis are for research purpose only and the above furnished details are correct and true to the best of my knowledge. I understand that I will be held responsible for any damages arising from incorrect information provided by me against points 7-10.

I agree to acknowledge DST and SAIF/CRNTS, IIT Bombay for providing (Instrument name) analytical facility for my research work, in my publications. I also agree to send the publication reference (Journal name/volume number/names of the authors/date of issue of the publication etc) to office.saif@iitb.ac.in

I declare that the "Content of this report is meant for our information only and we will not use the content of this report for advertisement, evidence, litigation or quote as certificate to third party" I accept that all the issued reports/results (Soft/hard) will not carry any Signature or Seal and Stamp of SAIF/CRNTS IIT Bombay.

Signature of the User

Signature of the In Charge/HOD/PI with College
P.I. / Guide seal / stamp

Date:

Place: