

**INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY**  
**Centre for Sophisticated Instrument & Facilities (CSIF)**

**IITB ANALYSIS REQUEST FORM AND SAFETY DATA SHEET – DMA**

1. Name of the User:-
2. Guide's Name:-
3. Email id:-
4. Sample Codes/Names:-
5. Number of Samples:-
6. Heating Program:- (Add more rows if required OR attach a separate sheet)
  - Initial Temperature = \_\_\_\_\_ deg C
  - Final Temperature = \_\_\_\_\_ deg C
  - Decomposition temperature = \_\_\_\_\_ deg C
  - Melting point = \_\_\_\_\_ deg C

7. Heating Rate:- All samples will be done @ 2 deg C per min.
8. Nature of samples:- Metal/Rubber/Elastomers/Composite/Thermoplastic/ others
9. Measurement Mode:- Please tick the required mode.
  - (i) 3 Point Bending (ii) Single/ Dual cantilever (iii) Tension (iv) Compression (v) Shearing

10. Parameters:-

  - i. Force :- \_\_\_\_\_ N (Max- 12N)
  - ii. Frequency:- \_\_\_\_\_ Hz
  - iii. Amplitude:- \_\_\_\_\_  $\mu$ m
  - iv. Atmosphere:- Nitrogen / Air (Please tick any one.)
  - v. Young's Modulus:- \_\_\_\_\_ GPa (If it is known)

11. Dimensions of the samples:- Please refer to the Table below

  - i. Length \_\_\_\_\_ mm
  - ii. Width \_\_\_\_\_ mm
  - iii. thickness \_\_\_\_\_ mm

12. 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

13. All the samples submitted should be cut uniformly as per the given dimension