

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:- _____ μ 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