

DMA

Bil.	Type of Analysis/sample	Probe/ Geometry	Run Time/ Method	Total Run Time (Min)	Schedule
1	Polymeric bar samples	Single Cantilever	Frequency series: Frequency 1: 1 Hz Frequency 2: 10 Hz Displacement amplitude: 20 μ m Start temperature: 50 $^{\circ}$ C End temperature: 130 $^{\circ}$ C Heating rate: 5 $^{\circ}$ C	30 min	4 - 15 January 2017 1 – 12 February 2017
2	Low stiffness samples such as thin films	Dual Cantilever	Frequency series: Frequency 1: 1 Hz	20 min	18 – 29 January 2017 15 – 26 February 2017

			<p>Frequency 2: 10 Hz</p> <p>Displacement amplitude: 1μm</p> <p>Start temperature: 50$^{\circ}$C</p> <p>End temperature: 100$^{\circ}$C</p> <p>Heating rate: 5$^{\circ}$C</p>		
3	Stiff bar samples	3 point Bending	<p>Frequency sweep test:</p> <p>Start frequency: 50Hz</p> <p>End frequency: 0.1Hz</p> <p>Temperature: 25$^{\circ}$C</p> <p>Increment: 0.1 Hz</p> <p>Displacement amplitude: 30μm</p>	35 min	<p>1 – 15 Mac 2017</p> <p>1 – 15 April 2017</p>

4	Low stiffness samples	Shear	<p>Frequency sweep test:</p> <p>Start frequency: 300Hz</p> <p>End frequency: 0.1Hz</p> <p>Temperature: 25⁰C</p> <p>Increment: 0.1 Hz</p> <p>Displacement amplitude: 20μm</p>	30 min	<p>16 – 31 Mac 2017</p> <p>19 – 29 April 2017</p>
5	Thin films and fibers	Tension	<p>Temperature ramp:</p> <p>Start temperature: 25⁰C</p> <p>End temperature: 70⁰C</p> <p>Heating rate: 3⁰C</p> <p>Frequency: 0.35Hz</p> <p>Displacement amplitude: 1μm</p>	20 min	<p>2 – 13 May 2017</p> <p>1 – 15 June 2017</p>

6	Polymer foams, gels and natural materials such as potato, bread and meat	Compression	<p>1) Frequency sweep test:</p> <p>Start frequency: 50Hz</p> <p>End frequency: 0.1Hz</p> <p>Temperature: 25⁰C</p> <p>Increment: 0.1Hz</p> <p>Displacement amplitude: 30μm</p> <p>2) Temperature Sweep Test:</p> <p>Start temperature: 30⁰C</p> <p>End temperature: 150⁰C</p> <p>Heating rate: 2⁰C</p> <p>Frequency: 1Hz</p> <p>Displacement amplitude: 30μm</p>	<p>35 min</p> <p>60 min</p>	<p>16 – 31 May 2017</p> <p>16 – 30 June 2017</p>
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- Policy –
- (1) All samples MUST be delivered to staff in-charge before 9.00 am of the actual date.
No late delivery will be accepted.
 - (2) All required documents are completed
 - (3) Results of analysis could be obtained on the next day.
 - (4) IPPH has the right to accommodate any unavoidable changes deem necessary

All enquiries please contact:

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