



## 11.Expansion of Polypropylene

**Instrument:** Tritec 2000 Dynamic Mechanical Analyser

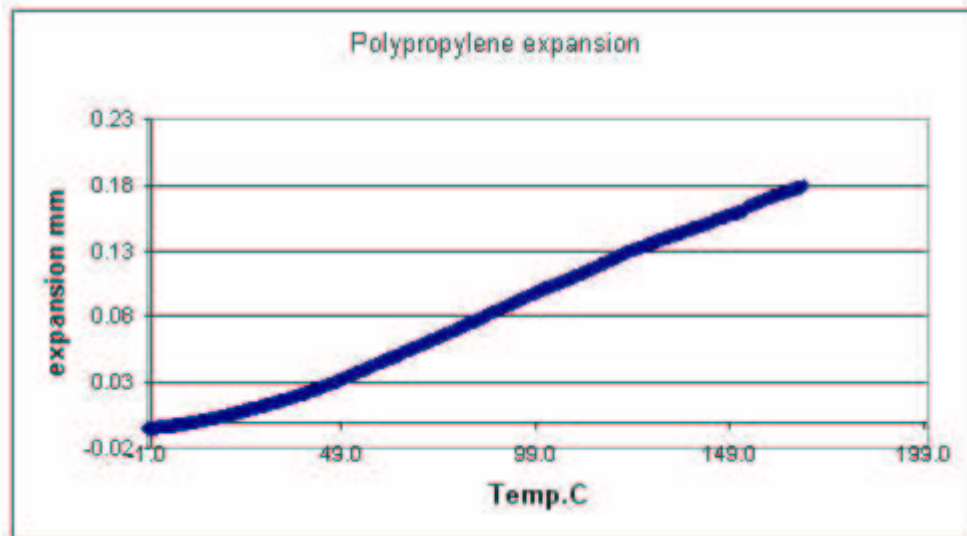
**Sample:** Car bumper

**Geometry:** Tension

**Static Force:** 0

**Frequencies (Hz):** 1.0

**Thermal profile:** 2°C/minute to 200°C



### Comments:

The above example illustrates how a standard Tritec 2000 DMA can be configured to provide expansion/ contraction information very easily. The system is set up with zero static force with the sample mounted in a tension geometry. The data above is displayed as mm but this can easily be converted or displayed as %expansion/contraction. It is also possible to display the force being exerted on the sample as it contracts against the DMA spring system – see Application Note 14 for more information.