



16. Natural Rubber

Instrument: Tritec 2000 Dynamic Mechanical Analyser

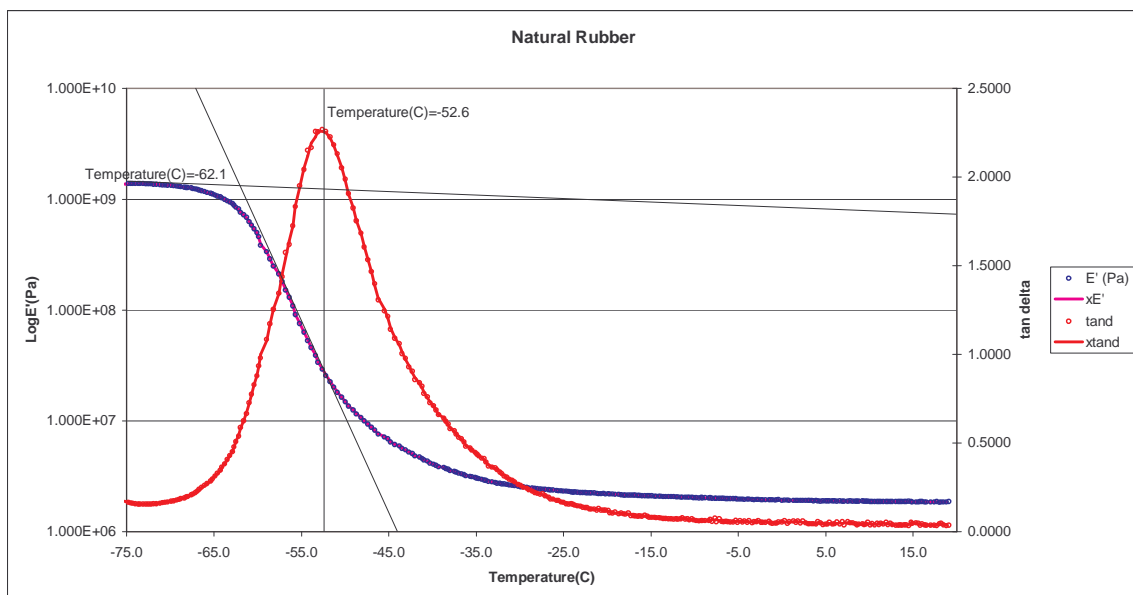
Sample: Natural Rubber

Geometry: Tension

%RMS strain: 0.079

Frequencies (Hz): 1.0

Thermal profile: 2°C/minute to 80°C



Comments:

Natural rubber presents a demanding test for any Dynamic Mechanical Analyser. The high tan delta damping peak and the rate of change of the sample as it passes from a glassy to a rubbery state, challenge the ability of any dynamic analyser.

Points to note in the above experiment is the clean nature of the raw data, displayed as points. The overlaying line presentations are 3 point moving averages.

The peak maximum and onset temperatures were automatically found using the TT graph labeller, a macro that the Triton Technology software attaches to Microsoft Excel™. This routine is available, once the Triton software has been loaded onto the PC, for use with any none Triton Technology Excel graphs. i.e. Any data from, for example, a DSC that has been transported into an Excel spreadsheet, can be presented