



14. Contraction of Leather

Instrument:	Tritec 2000 Dynamic Mechanical Analyser
Sample:	Hide used in luxury automobile
Geometry:	Tension
%RMS strain:	0.009
Frequencies (Hz):	1.0
Thermal profile:	4°C/minute to 120°C Isothermal at 120°C for 60 minute

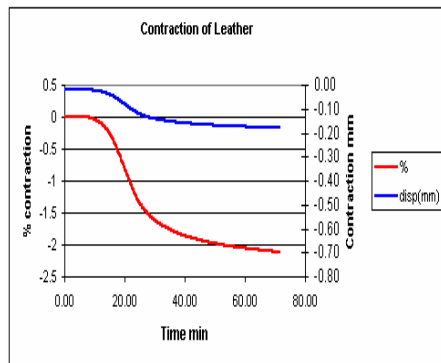


Fig.1

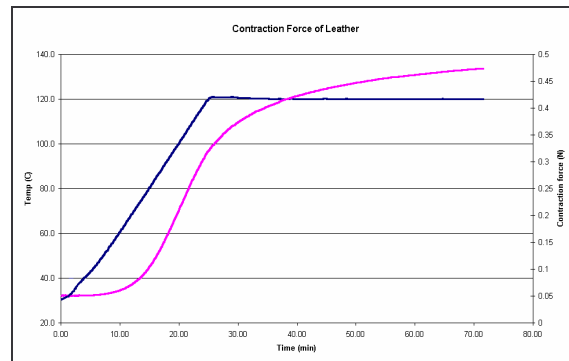


Fig.2

Comments:

The application illustrated here shows the ability of the system to handle contracting materials and to present information that is 'non standard' from standard equipment. Fig.1 shows the actual contraction of the leather as it dries out. This is then converted to % contraction.

Fig.2 shows the actual temperature profile vs time and the force being exerted on the DMA spring as the leather contracts.

The sample is measured in a Tension configuration with a zero static force and a low imposed strain (0.009%).