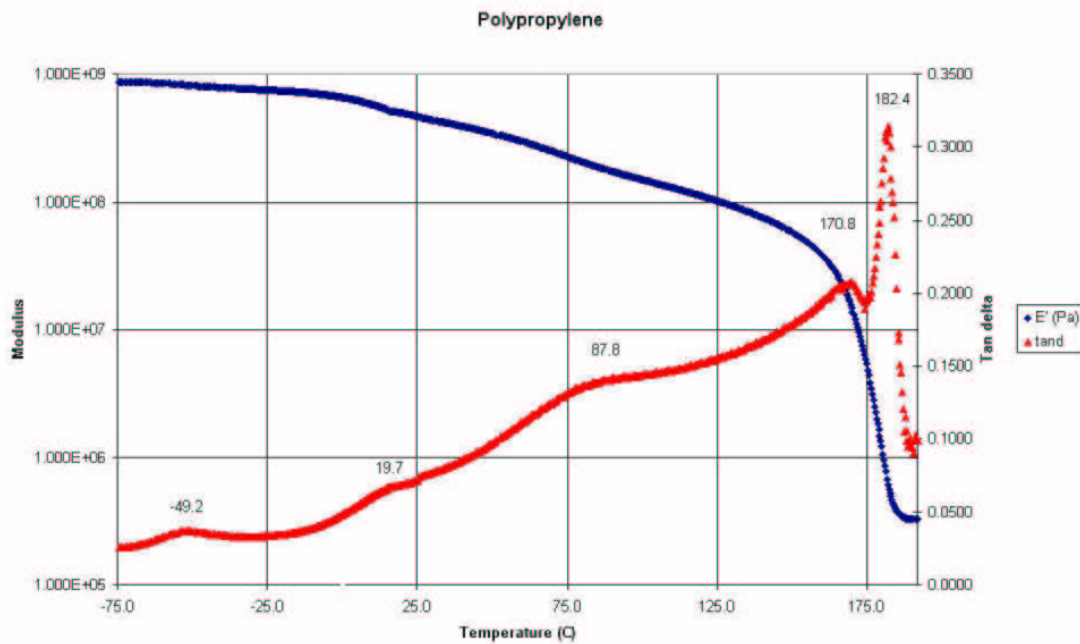




9. Polypropylene

Instrument: Tritec 2000 Dynamic Mechanical Analyser
Sample: Polypropylene 'clip' used to secure car door rubber seal
Geometry: Single cantilever bending 10mm x 5mm x 1.5mm
%RMS strain: 0.075
Frequencies (Hz): 1.0
Thermal profile: 2°C/minute to 200°C



Comments:

Polypropylene is a widely used material in many application areas. This sample is taken from a clip that holds car door seals in place. There are several characteristic 'events' with polypropylene and all can be seen clearly in this experiment. Transitions at -49°C, 20°C and 88°C and a 'melt' that commences just above 160°C are shown. The process around 20°C is often referred to as the glass transition of PP.