Polymer analysis – Dynamic Mechanical Analyser (DMA)

Technical data

Device	
Measuring principle	
Cooling system	
Temperature range	
Heating rates	
Special configuration	

Netzsch - DMA 242 C Dynamic Mechanical Liquid / gaseous N_2 -170 to +600 °C 0.01 to 20 K/min Separate purging gas connection for the use of any desired gases

Fields of use / applications

Characterisation of the mechanical properties of polymer materials such as plastics, matrix resins of fibre composite parts, fibre composite samples or adhesives under the influence of temperature

Investigation of the following characteristic values and processes:

- Storage/loss modules (G'/G", E'/E")
- Non-linear stress deformation curves (σ , τ)
- Retardation/Relaxation mode

Deformation modes:

- 3-point bending, single/double arm bending
- Tension
- Compression/Penetration





