THERMO MECHANICAL ANALYZER

Sr# Description Qty. Required **Thermo Mechanical Analyzer Specifications** 1. 1. Mechanical testing Analyzer 01 Make: TA instruments or NETZSCH, Germany, Japan, USA For polymers, metals & ceramics etc. Measure: Mechanical testing (Tensile, Compression, bending, Impact Strength, toughness etc.), Rheology of materials, Tg, Creep and Stress Relaxation, flexibility test and Dielectric Thermal Analysis Minimum Force: 0.005 N Maximum Force: 100 N Resolution: 0.00001 N Dynamic Displacement Range: ± 0.00005 to ± 1.5 mm Displacement Resolution: 1 Nanometer Modulus Range: 103 to 3 x 1012 Modulus Precision: ± 1% Frequency Range 2 x 10'5 to 100 Hz Fixtures for: Three-point Bending, Tension, Dual and Single Cantilever, Shear Sandwich, Compression, Contact lens, Immersion testing etc. Temperature Control: Forced Convection Oven Temperature Range: -50 to 1800 °C Heating Rate: 0.1 to 60 °C/min. Cooling Rate 0.1 to 60°C/min. Isothermal Stability: ±0,1 Sample Size: minimum 50 mm Viscoelastic properties should measure as a function of time. Standard sample clamps are for use to a maximum temperature of 1800°C Touch-Screen and Keypad Digital Camera: For real-time images Software, hard copies of operation and service manuals. Spares and Accessories: For smooth running of 5 years, including fixtures and standards (Metal alloys, ceramics and polymers) Make: UK, USA, Europe, Japan Quantity: 01 No.