Product Name : Computerized Universal Testing Machine (UTM)

Product Code : TN415



Description:

Computerized Universal Testing Machine (UTM)

Technical Specification :

Computerized Universal Testing Machine (UTM) Capacity: Up to 20 Ton **Test Speed** Test speed: 0.01 mm/min. Test speed: 500 mm/min. Full & return speeds: Compatible with above speed Force at full speed: Compatible with full speed Dimensions and features of cross heads of UTM Width: in the range of 1000- 1200 mm Depth: in the range of 500-600 mm Height: in the range of 1600-2000 mm Total crosshead travel: in the range of 1200-1400 mm Total vertical test space: in the range of 1200-1400 mm Frame Stiffness: Medium (Higher is preferable) Mechanical test to be carried on UTM (able to performed all mentioned test) **Tensile Test** Compressive Test Adhesion Test Ductility Test Fatigue/Cyclic Test

Flexure / Bending Shear/Torsion Test **Operational Condition** Test Temperature: Room Temperature Test Humidity: Normal Display/User interface Digital Readout/Interface Video/Graphic Display Computer Interface: there (Via USB or Ethernet) Application Software (Controlled by PC): there (Suitable and is compatible with OS) Strain Measurement System: Industry Standards that is followed and their document Grade/Class Range limits Follow any of mentioned standards Accuracy: ~ 0.5 µm Repeatability: ~0.25Âum Discrimination / Resolution: 0.0004% of Range Force measurement System Accuracy: ~+_ the larger of 0.5 % of reading or 0.01 % of capacity Repeatability: ~+ the larger of 0.25 % of reading or 0.005 % of capacity Load frame & drive system specification ~+_0.25mm (0.01 in.) over full Lateral Motion: Crosshead Travel Speed accuracy: ~+_0.1% of set speed for all forces within the capacity of the machine when average over the larger of 15 seconds or 50mm (2 inches) Position Resolution: ~ 0.6 µm(25 micro inches) standard/0.06 µm is optional with high resolution encoder Position accuracy: The greater of 0.025 mm (0.001in.)or 0.025% of movement Measuring Units Micrometer type: Reading to 0.001 mm (0.00005 in) Caliper type: Reading to 0.01mm (0.0005 in) Dial Indicator type: Reading to 0.025,0.0025 or 0.00025 mm (0.001,0.0001 or 0.00001 in) Standard to be followed (follow one the mentioned standard relating to UTM and testing of materials) Practice for Force verification of testing machine Practice for calibration of Force measuring instrument for verifying the force indication of Testing machine Practice for verification and Classification on extensometer systems Practice for verification of test frame and specimen alignment under tensile and compressive Axial force application Standard guide for evaluating computerized data acquisition systems used to acquire data from Universal Testing Machines; Transmission: Hydraulic Type Suitable for mechanical testing of following material Tension Grip: Grip for rod, grip for plate Compression Grip: Bending grip Stainless Steel Modified Stainless Steel such as SS 316, SS 316 LN (follow one the mentioned standard relating to UTM and testing of materials) Polymer such as FRP, Polyamides, Epoxy esters Different Metals such as Copper, Aluminum Alloys etc.

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