

TELEFLEX ELEKTRONIK

**COMPLETE CABLE TESTING
INSTRUMENTS UNDER ONE ROOF**

TELEFLEX ELEKTRONIK

manufacturer's of cable testing equipments

B-1/151 JANAHPURI NEW DELHI-110 058 [India]

telefon:

e-mail: teleflexelektronik@yahoo.com

e-mail: teleflexdelhi@gmail.com

e-mail: info@teleflexelektronik.com

website: www.teleflexelektronik.com

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TELEFLEX EQUIPMENTS / INSTRUMENTS FOR VARIOUS APPLICATIONS

- * Million Megohm Meter range 1000 X 10⁶
- * Cable Fault Locator [power & telecom cables]
- * AC High Voltage Tester
- * AC Spark Tester
- * DC Spark Tester
- * High Frequency Spark Tester
- * DC High Voltage Tester
- * Kelvin Industrial Double Bridge set
- * Senior Industrial Double Bridge set
- * Spot Reflecting Galvanometer
- * Conductivity Attachment
- * DC Power Supply/DC Source
- * Thermal Stability Test Apparatus
- * Reduction Factor Test Apparatus
- * Solder Bath
- * On-Line Induction Pre-heater [Cable Extrusion]
- * Horizontal & Vertical Travelling Microscope
- * Universal Hot Air Oven
- * Hot Deformation Test Apparatus
- * Deep Freezer -20 & -40 degree C [with winding System on load for auto cables]
- * Testing Equipments for conduit pipes
- * Hot Set Test Apparatus
- * Digital Milli/Micro-ohm Meter
- * Vicat Softening Point Test Apparatus
- * Digital Universal Testing Machines
- * Dumbel Cutting Die [Various Sizes]
- * O-Zone Resistance Test Apparatus
- * Butt Welding Machines
- * Critical Oxygen Index Test Apparatus
- * 3 Meter Cube Smoke Density Test Apparatus
- * Light & Water Exposure Apparatus
- * UV-Condensation Weathering Device
- * Sequential Marking Machines
- * Digital Impedance Meter
- * Burning High Voltage Set [for LT & HT Cables]
- * Tray Oven
- * High Voltage Insulation Megger
- * Flammability Test Apparatus F-4
- * Flammability Test Apparatus IEC-331
- * Flammability Test Apparatus IEC-332 pt-III
- * Flammability Test Apparatus UL-94
- * Temperature Data Logger
- * Projection Microscope
- * AC High Voltage Tester [Series Resonance Type]
- * Digital Partial Discharge Detector
- * Primary/Secondary Current Injection Test Set
- * Water Absorption Test Apparatus
- * Torsion Testing Machines
- * Wrapping Machines
- * Muffle Furnace
- * Heat Shock Test Apparatus
- * Cold Bend Tester
- * Copper Purity Test Apparatus
- * Abrasion Resistance Test Apparatus [Reciprocating Blade Testing Method]
- * Abrasion Resistance test Apparatus [Abrasive Method]
- * Flexing Test Apparatus
- * Cable Printing Machine [Ink Type]
- * Carbon Black Content Test Apparatus
- * Bleeding & Blooming Test Apparatus
- * Color Fastness to Day Light Exposure Apparatus
- * Thermal Ageing Oven
- * Hot Water Bath
- * Cold Impact Test Apparatus
- * Conditioning Chamber
- * Humidity Chamber
- * Digital Capacitance Meter
- * Air/Oxygen Bomb Blast Test Apparatus
- * Melt Flow Index Test Apparatus
- * Digital Tensile Testing Machines
- * Hydraulic & Screw Press
- * Tear Resistance Test Apparatus
- * Oil Resistance Test Apparatus
- * Smoke Density Test Apparatus
- * Swedish Chimney F-3 Cables
- * Auto Cables Testing Equipments
- * Halogen Test Apparatus
- * Two Roll Rolling Mill
- * Transmission Measuring System Apparatus [TMS]
- * Slicing Machine
- * Curing Tank for XLPE Cables
- * High Voltage Tester for HT XLPE Cables
- * Flammability Test Apparatus for PVC Adhesive tape
- * Flammability Test Apparatus IEEE-383
- * Flammability Test Apparatus IRC-332 Pt-I & II
- * Flammability Test Apparatus IEC 212
- * Flammability Test Apparatus IEC60331-11-ENGL 1999
- * PID Temperature Controller
- * Toxicity Test Apparatus
- * Impulse Test System
- * Solid State Relay
- * Single/Three Phase Relay Test Set

For Teleflex Elektronik

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CARBON BLACK DISPERSION TEST APPARATUS

T2/33



Teleflex Carbon Black Dispersion Test Apparatus is mainly used for the determination of carbon black dispersion. It finds wide application in the plastic industry. The instrument comprises of a hot plate which is 8 inch in diameter. The temperature range can be adjusted between ambient and 200 C. Carbon black dispersion test apparatus is fitted with a 6 inch size microscope with a magnification power of 100 x and 450 x. The instrument is manufacture as per IS 4984 and IS 4985.

Technical Specification: • Size of hot plate: 8 inch diameter.
Temperature range: Ambient to 200 C.
Size of microscope's screen: 6 inch diameter.
Magnification: 100 X, 450 X.
Paint: Powder coated.
Power: 230V, 50 Hz, single phase.

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MELT FLOW INDEX TEST APPARATUS

T2/35



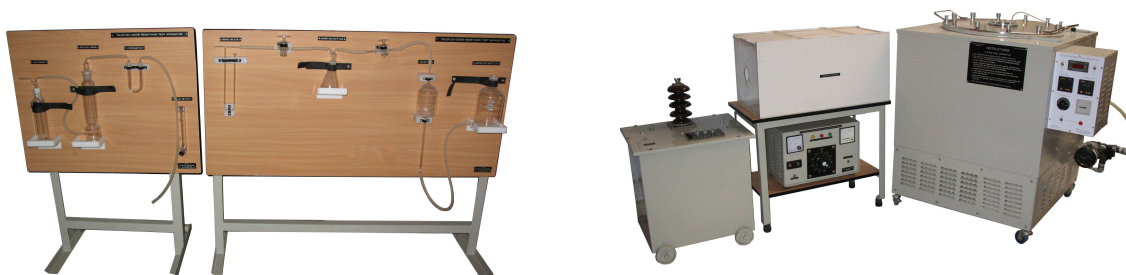
- # DESIGNED TO FIND MELT FLOW INDEX OF POLYETHYLENE INSULATION AND SHEATH OF ELECTRIC CABLES BY MEASURING THE RATE OF EXTRUSION OF POLYETHYLENE THROUGH AN ORIFICE OF SPECIFIED LENGTH AND DIAMETER UNDER PRESCRIBED CONDITION OF TEMPERATURE AND PRESSURE
- # STAINLESS STEEL CYLINDER, PISTON, JET / ORIFICE
- # SUITABLE / REQUIRED WEIGHTS
- # PISTON THERMALLY INSULATED FROM WEIGHTS
- # PID TEMPERATURE CONTROLLER

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OZONE RESISTANCE TEST APPARATUS

T2/36

FOR CABLES AS PER IS: 10810 (PT.13), IEC: 540



TELEFLEX Ozone Resistance Test Apparatus covers a method for estimating the resistance of elastomeric material of electric cables to attack of Ozone gas. Unsaturated polymeric materials when exposed to ozone undergo degradation revealing in cracks. Amount of degradation depends on the test temperature, material, ozone concentration and mechanical strain. This test is designed to find out static resistance of polymeric material to Ozone..

The test equipment consists of long tubing line consisting of followings
Stand for Glass ware Ozone Generator, Conditioning Chamber, Stand for Glass ware,
.H2SO4 Drier – Fixed flow of air is passed through this drier to absorb the moisture content of air.
Second Drier – To ensure that no trace of moisture is present the air is again passed through Potassium Hydroxide.
Humidity Indicator – Consist of reusable moisture indicating gel.
Flow Meter with Control – Provides a very fine regulation of air flow.
Range: 0 to 10 liters \ min. approx. (Test specifies air flow between 280 and 560 lts/h.).

Ozone Generator – The specially designed Ozone generator consists of Concentric Electrodes Separated by a thin glass. Voltage is applied between these Electrodes to convert passing air into Ozone.

The electrode assembly is supplied with a Potential Transformer fitted with a variable Voltage control rated between 20 & 30 KV, having an output current of 10mA. The Ozone generator assembly is mounted in a High Quality Plastic Sheet Box to ensure complete safety to the operator.

Temp. Controlled Chamber – A refrigerated chamber having provision for both heating and cooling is supplied with The equipment. The inside of the ROUND chamber is made of stainless steel. The temp. is controlled by electronic Digital Temp. Indicating Controller using a PT-100 sensor. Range of temperature is from 10 DEGREE CELCIUS To 80 DEGREE CELCIUS. with control accuracy better than +/- 2 DEGREE CELCIUS.

Glass apparatus to collect Ozone gas for determination of Ozone concentration by chemical analysis method Described in IS: standard.

Note: The instrument is based on chemical analysis of determining the ozone concentration and can read from 200 PPM onward.

**Air Source \ Compressed air line and mandrels for sample preparation
To be provided by user.**

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TOXICITY TEST APPARATUS

T2/37



The Teleflex Toxicity test Apparatus T2/50 is used for the determination of the Toxicity index of the products of combustion from small specimens of material.

FEATURES:

The Chamber has a steel framework for strength and is constructed from fire retardant grade polypropylene with welded seams and a volume of 0.7 cubic meters. The Door, which gives full access to the Chamber for easy cleaning is constructed from clear polycarbonate sheet, backed with laminate for strength

And rigidity. Gas Burner has a spark ignition system which automatically re-ignites should the flame extinguish. 15 sampling positions are provided for use with Colorimetric Gas Reaction Tubes or optional specific Gas Analysers.

Separate Control Unit houses the Flow meters, Timer, Methane and Air Controls.

Forced-air extraction system for evacuating the Chamber after a test.

Internally mounted Stirring Fan for rapid mixing of combustion products.

SPECIFICATION:

Chamber Dimensions (mm) 1100 (W) × 800 (D) × 1300 (H)

Control Unit Dimensions (mm) 530 (W) × 270 (D) × 280 (H)

Voltage: Dual - 110V-60Hz 3A - 230V-50Hz 2A

Weight: 70kg

TELEFLEX ELEKTRONIK

PROJECTION MICROSCOPE

T2/38



For Industrial Laboratories Made from brilliant optical lenses/front coated mirror system & projection screen with Fresnel Lens system for a uniform & sharp projection specimens on the screen.

TECHNICAL SPECIFICATION

Projection screen 300mm with cross line & graduation for measurements.
Stage 150mm x 150mm with coaxial graduated mechanical stage for X & Y movements Objectives (Achromatic) Four :5X dry, 10X dry, 20X dry, 45X dry (spring) Magnification with built in 10X projection eyepiece 10X, 20X, 50X, 100X. 12 VOLTS Halogen Lamp.

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VICAT SOFTENING TEST APPARATUS

T2/39



- # TELEFLEX VICAT SOFTENING TEST APPARATUS COVERS THE PROCEDURE FOR MEASURING VICAT SOFTENING POINT OF POLYTHELENE INSULATION AND SHEATH OF ELECTRIC CABLES.
- # THE APPARATUS CONSISTS OF A HEATING BATH,
- # INNER CHAMBER MADE OF STAINLESS STEEL, WITH IMMERSION HEATERS,
- # WATER COOLING SYSTEMS,
- # RIGID METAL FRAME,
- # NEEDLE WITH CYLINDRICAL INDENTING TIP,
- # DIAL GAUGE, WEIGHT,
- # STIRRIER, DIGITAL TEMP. INDICATOR,
- # ENERGY CONTROLLER IS PROVIDED TO RAISE THE UNIFORM TEMPERATURE OF $50 \pm 5^{\circ}\text{C}$ / HOUR.

TELEFLEX ELEKTRONIK

MUFFLE FURNACE

T2/40



Construction : Light weight construction of Mild Steel with pleasing powder coating finish. Heating Elements are made of *Kanthal- A1* high quality resistance wire in coil form wound on the muffle, backed by low mass thermal insulation. This arrangement ensures good thermal uniformity in the chamber, rapid heating and cooling and also reduces the weight of the furnace nearly by 75% compared to the Brick insulated furnace. **Temp Range** : Maximum Operating Temp: Up to 1200 Å°C. Microprocessor based PID Controller

Sizes Available: (All dimensions in inches)

9 x 4 x 4	10 x 5 x 5
12 x 6 x 6	12 x 8 x 8
13 x 7 x 5	14 x 6 x 4
12 x 9 x 9	18 x 9 x 9

TELEFLEX ELEKTRONIK

ULTRA VOILET CONDENSATION WEATHERING DEVICE T2/41



UV2000 UV Condensation Weathering Device

The Teleflex UV2000 is the perfect screening device for testing the effects of the sun's energy on your material easily and affordably. Innovative design features improve test reproducibility and lower operating costs while testing coatings, plastics, pigments, adhesives, textiles and other materials for their reaction to UV light, temperature and moisture. The UV2000 meets or exceeds test requirements for ASTM, DIN, ISO, JIS and many other industry standards and requirements.

- Temperature control: PID Black Panel temperature control provides precise temperature control throughout every test cycle
- Condensation Cycle: water vapor to create condensation is produced by a heating reservoir located in the bottom of the test chamber
- Dual safety (hardware and software) for quick shut off of main control due to the door opening
- Low water level alarm
- 23) 3" x 12" specimen holders including one black panel and (46) 3" x 6" aluminum panels for simplified mounting of specimens; individual holders can mount directly to the UV2000 without a specimen rack
- Set of four casters
- Exterior Dimensions: H: 155 cm (61 in.) W 135 cm (53 in.) D 51 cm (20 in.)

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