

AN ISO 9001:2015 CERTIFIED COMPANY



TECH PLASTTM
TESTING MACHINES



 www.thetechplast.com

**MFG. &
EXPORTER OF POLYMER
TESTING MACHINES**



COMPANY INTRODUCTION

ABOUT US

Since 2019, Our Team Has Succeeded In Understanding The Needs Of The Industry And Creating Reliable Products To Serve Them All. We Techplast Testing Machines, Are A Prominent Plastic Testing Equipment Manufacturing Companies Of India Based In Ahmedabad (gujarat). Techplast Testing Machines, Is A Family Owned And Operated Business. We Treat All Of Customers An Integral Part Of Family. At Techplast, We Just Don't Sell Equipments, We Provide Solutions. We Just Don't Make Clients, We Make Friends. Our Commitment To Offer A Complete Range Of Efficient Plastic Testing Equipments Has Got Only Stronger And Stronger. We Maintain Our Exceptional Quality Of Plastic Testing Equipments With Zero-tolerance To Error. Our Products Are Not Only Adhering To The Stringent National And International Standards.

WHY CHOOSE US ?

We Have Achieved A Remarkable And Strong Position In The Market Due To Our Excellent Quality Range Of Products That We Provide In Several Specification.

Following Are The Some Of The Unique Reasons Due To Which We Have Achieved The Belief Of Our Valued Patrons

MISSION & VISION

We believe that we are on the face of the earth to make great products and that's not changing. We are constantly focusing on innovating. We believe in the simple not the complex. We believe that we need to own and control the primary technologies behind the products that we make, and participate only in markets where we can make a significant contribution. We believe in saying no to thousands of projects, so that we can really focus on the few that are truly important and meaningful to us. We believe in deep collaboration and cross-pollination of our groups, which allow us to innovate in a way that others cannot. And frankly, we don't settle for anything less than excellence in every group in the company

INDUSTRY WE FOLLOW

- PVC PIPE TESTING IS : 4985 | EN:1401 | EN:1452
- C-PVC PIPE TESTING IS: 15778
- U-PVC PIPE TESTING ASTM D:1785 | IS: 12335 (PART 9)
- R-PVC PIPE TESTING IS: 4985
- PVC FLEXIBLE HOSE PIPE TESTING IS: 15265
- PVC SEWAGE PIPE TESTING IS: 15328
- HDPE PIPE TESTING IS: 4985 | IS: 14333
- MDPE PIPE TESTING IS: 14885 | ISO:4437
- LLDPE PIPE TESTING IS: 12786 | IS: 13488
- PE WATER PIPE TESTING ISO: 4427 | EN: 12201
- PE STRUCTURED WALL PIPE TESTING EN: 13476
- PE GAS PIPE TESTING ISO: 4437 | EN: 1555
- PEX-AL-PEX PIPE TESTING ISO: 15875 | ASTM F: 1281
- SPRINKLER PIPE TESTING IS: 14151
- PP-R PIPW TESTING IS: 15801
- HOSE PIPE TESTING IS: 15265
- PP FOR HOT & COLD WATER PIPE ISO: 15874 | ISO: 21003
- INLINE / ONLINE EMITTERS & LATERAL PIPE IS: 13488 | IS: 12786
- SWR PIPE TESTING IS: 13592
- SWR FITTINGS IS : 147735
- CASTING PIPE TESTING IS: 12818
- DWC PIPE TESTING IS: 14930[(P-2)/GR/DWC-34/03/01]
- PLB DUCT TESTING (AS PER DOT STANDARD)
- ELECTRICAL CONDUITS TESTING IS: 9537 (PART - 1& 3)
- MULTI- LAYER CO-EXTRUITS FILM TESTING IS: 2508 | IS: 2530
- INJECTION, BLOW & ROTATIONAL MOLDING
- ROTATIONAL MOLDED WATER TANK TESTING IS: 12701
- TEXTILE-TARAPaulin IS: 7903 | IS: 706 (P-8) | IS: 15351
- SOLVENT CEMENT JOINTS FOR WATER SUPPLIER TESTING IS: 7834 VALVE (PP, PVC, PE... ETC)
- CABLE WIRE & ROPE
- STREP (PET,PP)
- COMPOUNDING & MASTER BATCH | WOOD & LAMINATES
- FRP/ GRP PIPES & PRODUCTS TESTING EQUIPMENT
- PHARMA INDUSTRIES TEXTILE & YARN TESTING EQUIPMENT
- RUBBER TESTING EQUIPMENT
- PAPER & PACKAGING EQUIPMENT

OUR COMPANY PRODUCT



UNIVERSAL TESTING MACHINE

SPECIFICATION	
Load cells Capacity	: UP TO 5 TON as per your requirement
Available Model	: Single Screw, Twin Screw,
Speed range	: 1 mm/minute to 500mm/minute
Cross Travel	: Up to 700 mm*
Paint	: Powder coated
Power Supply	: 440 Volts / + N 3 Phase

TENSILE TESTING MACHINE

SPECIFICATION	
Load capacity	: Up to 800 kg*
No. Of load cell	: Optional One or Two
Cross travel	: Up to 600 mm
Speed	: 5mm/Minute to 500mm/Minute
Paint	: Powder coated
Power supply	: 230 Volts, 50Hz, Single Phase.



TOP LOAD TESTER

SPECIFICATION	
Load capacity	: Up to 30 kg*
No. Of load cell	: Optional One or Two
Cross travel	: Up to 500 mm
Speed	: 5mm/Minute to 500mm/Minute
Paint	: Powder coated
Power supply	: 230 Volts, 50Hz, Single Phase.





SEALING / BOND /PEEL STRENGTH TESTER

SPECIFICATION	
Load capacity	: Up to 30 kg*
No. Of load cell	: Optional One or Two
Cross travel	: Up to 600 mm
Horizontal day light	: 600 mm
Speed	: 5mm/Minute to 500mm/Minute
Paint	: Powder coated
Power supply	: 230 Volts, 50Hz, Single Phase.

TENSILE WITH C.O.F TESTER

SPECIFICATION	
Load capacity	: 20 Kgf & 1000 Gram.
No. Of load cell	: Two
Daylight	: 500 MM
Speed	: 10 mm/minute to 500 mm/minute
Paint	: Powder coated
Power supply	: 230 V Ac/50 Hz



DIGITAL PUNCTURE RESISTANCE TESTER

SPECIFICATION	
Loadcell Capacity	: 20 Kg
Microprocessor Basewd Controller	
Grip	: Puncture Attachment
Body	: M.S Powder Coated
Power	: 230 V AC, 50 Hz



AUTO MELT FLOW INDEX TESTER

SPECIFICATION

Temperature Controller :	Microprocessor based Digital Temperature
Accessories :	Orifice, Piston, Material charger, Barrel Cleaner, Orifice cleaner, Sample Cutter.
Weights :	2.16 Kg & 5 Kg hard chrome plated weights
Amperes :	4 Amps
Paint :	Powder coated
Power supply :	230 Volts, 50Hz
Timer :	Microprocessor based Digital Timer With range up to 999.9 Seconds and having Preset facility and Buzzer output.

CO-EFFICIENT FRICTION TESTER

SPECIFICATION

Capacity :	Up to 999.9 Gram
Direct display :	Static and kinetic friction values
Speed :	150mm/minute
Weight of sled :	200 grams
Accessories :	Three nos. of S.S templates
Paint :	Powder coated
Power supply :	230 Volts, 50Hz, Single Phase.



DIGITAL HYDROSTATIC PRESSURE TESTER

SPECIFICATION

Pressure range :	0 – 100 bar*
Pressure input :	Through compressed air having pressure upto 5 kg/cm.sq
Pressure output :	through hydro-pneumatic pump
No. of stations :	3 Nos(As Per Your Requirement)
Time range :	0 – 999.9 hours
Paint :	Powder coated
Power supply :	230 Volts, 50Hz, Single Phase.



HOT AIR OVEN

SPECIFICATION	
Size of the working chamber	: 18 inch X 18 inch X 18 inch*
Material of construction	: M.S.
Temperature range	: Ambient to 250°C.
Paint	: Powder coated
Power supply	: 230 Volts, 50Hz

MOTORIZED NOTCH CUTTER

SPECIFICATION	
Range	: 0 To 25 MM
L.C	: 0.01 MM
Cutting Angle	: 45
Paint	: Powder coated
Power	: 230 V AC / 50 HZ



MOISTURE ANALYZER

SPECIFICATION	
Range	: 0 To 110 Gram
L.C	: 10 MG
Lamp	: Halogens Lamp
Power	: 230 VAC/50 HZ

CARBON BLACK CONTENT TESTER

SPECIFICATION	
Temperature Range	: Ambient to 850 C
Temperature Least Count	: 1 C, Accuracy + 5 C
Type of sensor	: K type
PID Controller make	: PPI Omnix +48
Paint	: Powder coated
Power supply	: 230 Volts, 50Hz





MUFFLE FURNACE

SPECIFICATION	
	: Inner Chamber Size: 9" x 4" x 4"
Temperature Range	: Ambient to 900 C
Temperature Least Count	: 1 C, Accuracy + 5 C
	: Insulation through glass wool
Type of sensor	: K type

HEAT SEAL TESTER

SPECIFICATION	
Temperature zone	: Two zone
Controller	: Auto tuned PID controller with temperature range
Clamping Jaws	: One fixed and second movable by pneumatic action.
Adjustable temperature	: 0- 199.9°C(Digital P.I.D Controller)
Adjustable dwell time	: 0-9.99 seconds (Digital Display)
Sealing Depth	: 6mm / 8 mm 11o mm / 12 mm or as desired.
Sealing Length	: 2 / 4 / 6 / 8/ 10/ 12 Inches or as desired.
Power requirement	: 230 Volts, 60 Hz, Single phase – 16ampere.



IMPACT TETSER

SPECIFICATION	
Height of fall	: 500mm, 1000mm and 2000mm.
Weight of striker	: 250 grams, 500 grams and 1000 grams.
Material of striker	: M.S
Angle of "V" block	: 120°
Release mechanism of striker	: Manual.
Paint	: Powder coated



V-ICAT SOFTENING POINT APPARATUS

SPECIFICATION	
Temperature range	: From ambient to 300 °C.
No of stations	: With Options Of 2 Stations to 6 Stations
Material of construction	: Inner bath: S.S
Outer body	: M.S
Rate of heating	: 120 °C / hour and 50 °C / hour.
Sensor	: Range up to 10mm with resolution of 0.01mm.
Paint	: Powder coated.
Power	: 230 Volts, 50Hz, single phase.

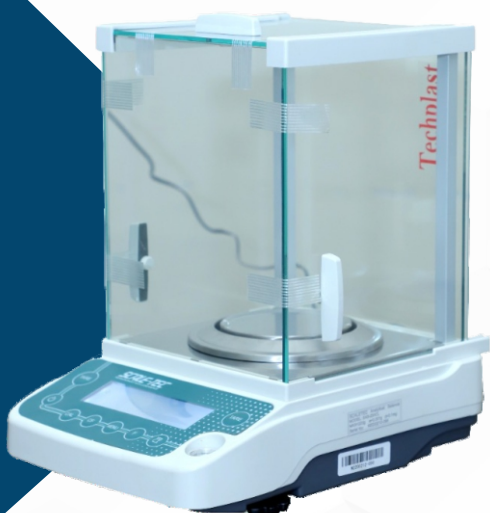
FREE FALLING DART IMPACT TESTER FOR FILM

SPECIFICATION	
Material of construction	: S.S
Counter	: Digital counter 9999 count
Weights	: 5 gram to 500 gram (Aluminium and S.S)
Paint	: Powder coated
Power	: 230 V AC/50 Hz



HUMIDITY CHAMBER

SPECIFICATION	
Size of the working chamber	: 18 inch X 18 inch x 18 inch*
Material of construction	: Inner bath : S.S / Outer body : M.S
Humidity range	: 20% RH to 95% RH.
Temperature range	: 10°C to 85°C
Paint	: Powder coated
Power	: 230 Volts, 50 Hz, Single phase.

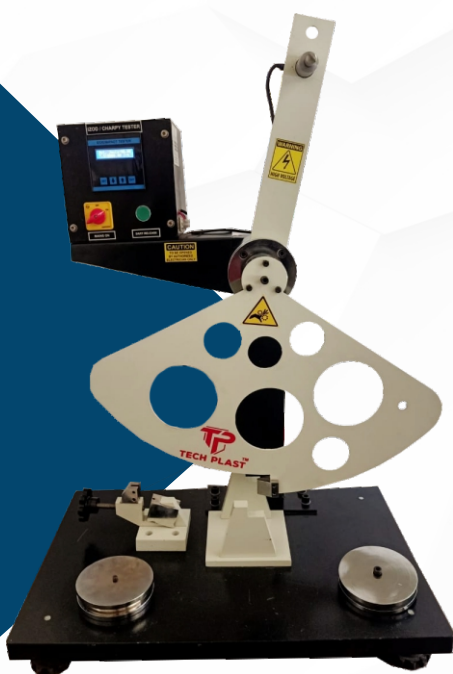


DIGITAL DENSITY WITH MICRO BALANCE

SPECIFICATION	
Weighing balance range	: 220 grams
Resolution	: 1 milligram or 0.1 mg
Accessories	: Beaker, stand sinker & thread
Paint	: Powder coated
Power	: 230 Volts, 50Hz, single phase.

OPACITY TESTER

SPECIFICATION	
Range	: 0 – 99.9 % opaque.
Direct display	: % opaque.
Paint	: Powder coated
Power	: 230 V AC/50 Hz



IZOD / CHARPY TESTER

SPECIFICATION	
Capacity	: Up to 25.00 Joules
Release angle of pendulum	: 150 degree.
Range of four scales	: 0-2.71 Joules, 0-5.42 Joules, 0-10.84 Joules, 0-21.68 Joules and 0-25.00 Joules.
Minimum resolution on scale	: 0.02 Joule, 0.05 Joule, 0.1 Joule, 0.2 Joule and 0.2 Joule respectively.
Paint	: Powder coated
Power	: 230 Volts, 50 Hz, Single phase.

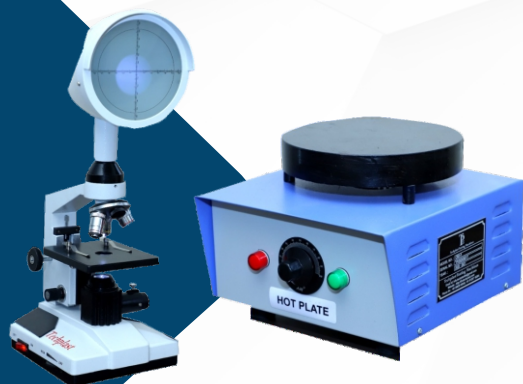
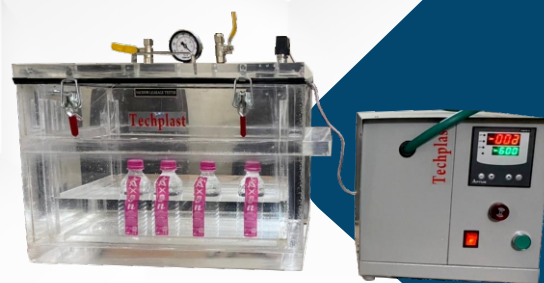


E.S.C.R TESTER

SPECIFICATION	
Temperature range	: 0-200 °C.
Timer range	: 999.9 hours
Accessories	: Cutting die, nicking jig, bending cum transfer tool, specimen holder, test tube & rubber cork
Water circulation	: Through induction motor with stirrer
Inner Body	: S.S Body
Outer Body	: M.S Body
Testing capacity	: 6 tests at a time
Paint	: Powder coated
Power	: 230 Volts, 50Hz, single phase.

VACUUM LEAKAGE TESTER

SPECIFICATION
Vacuum adjustable up to -600 mm-Hg
Box made of polished transparent PMMA (very rugged)
Easy to use and safe
2 stage vacuum and holding time setting Accuracy 0.5% of the measure
Delivered with vacuum generator
Customised Box with dimensions upon request



CARBON BLACK DISPERSION TESTER

SPECIFICATION	
Temperature range	: Ambient to 200°C.
Paint	: Powder coated
Power	: 230 Volts, 50 Hz, Single phase.



GSM WEIGHING BALANCE WITH ROUND CUTTER

SPECIFICATION	
Range	: 0 to 300 gram
L.C	: 0.01 Gram
Template Size	: 100 x 100 mm ² (Square)
Power Supply	: 230 V AC/50Hz

LAB MODEL HYDRAULIC COMPRESSION MOULDING PRESS

SPECIFICATION	
Main Body	: M.S Body
Platen Size	: 200 mm × 200 mm
Maximum Temperature Range	: ambient to 300 C
Cylinder Stock	: 200 mm
Heating Load	: 1.2 Kw/Platen
Maximum Pressure	: 120 bar
	: Hydraulic Cylinder for making sheets
	: Limit switch for cutting off lower stock
Spare Die For Making Sheet	: 2 mm, 3mm, 4mm
	: Pressure switch for maintain pressure
	: Proximity sensor for double safety purpose
	: Solenoid vale with relay for forward and reverse
	: Platen type heater for heating the granules
Corrugated pipe for cooling	: 04 No's (2 meter)
	: Hydraulic power pack for operating machine.
Motor Capacity	: 2 Hp
	: Digital PID Temperature Controller
Controller Make	: Selec
Digital Timer Make	: Selec
Power Supply	: 440 V / +N, E, 3 PHASE



DIGITAL BURSTING STRENGTH TESTER

SPECIFICATION	
Capacity	: M.S Body
Microprocessor Based Controller	
Liquid Type	: Glycerin
Test Area	: 30.5 mm Diameter
Paint	: Powder Coated
Power	: 230 V Ac/50 Hz

HYDRAULIC DENSITY PRESS

SPECIFICATION	
	: Temperature Controller For Both Platens
Temp. Range	: 200 Deg C
Pressure	: 10 Tons
	: Dial Indication for pressure
	: Cooling by chilled water
Pressure by	: Manual hydraulic jack of 10 ton
Paint	: Powder coated
Power	: 230 VA/C, 50 Hzs



OIL BATH FOR REVERSION TEST

SPECIFICATION	
Material of construction	: M.S
Inner Body	: S.S
Temperature Range	: Ambient to 250°C
Least Count	: 0.10C
Size	: 4ft. X 1ft. X 1.5ft., 4ft. X 3ft. X 1.5ft., 6ft. X 4ft.
	: X 4ft., 6ft. X 4ft. X 4ft.
Paint	: Powder coated.
Power	: 230 V AC/50Hz, 440 V AC/3 Phase

FREEZER

SPECIFICATION	
Size of the working chamber	: 18 inch X 18 inch x 18 inch*
Inner Body	: S.S
Temperature Range	: Ambient to -5°C
Paint	: Powder coated.
Power	: 230 V AC/50 Hz.



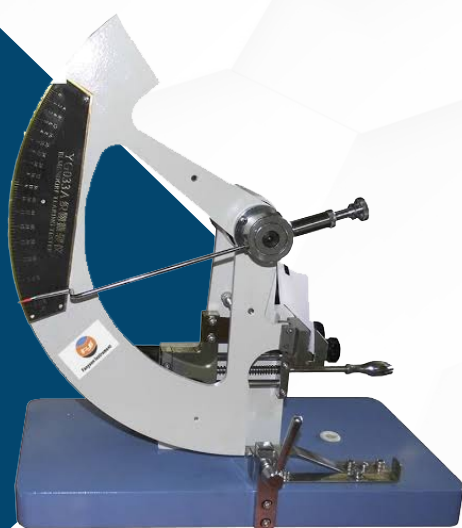


DIGITAL DICHLOROMETHANE TESTER FOR PVC PIPE

SPECIFICATION	
Inner Body	: S.S 304
Display Type	: Digital
Temperature Range	: Ambient to 15 Degree.
Paint	: Powder coated.

HOT AND COLD - WATER BATH

SPECIFICATION	
Temperature Controller	: Digital PID controller with range Up to 95
	: Circulation: through Crompton Greaves motor.
Size of the inner bath	: 48"X 30"X 18".
	Size of outer M.S body.
Controller make	: Digital controller with range Ambient To 27
	: deg C and accuracy of + 1 deg C
	: Cooling through Compressor, Kirlosker or
Circulation	: Through Kirlosker make pump with flow control Valve.
Insulation	: PUF with Insulated hydraulic door
	: First Cycle to achieve temperature will be 2 to 4 hrs.
	: Top opening cover with PUF insulation
	: (Inner S.S. and outer)
	: Provision to connect sample for test on side wall of bath.
Insulation	: Powder coating (Outer sheet with inner and outer coating with proper process).



ELMENDORF TEAR TESTER

SPECIFICATION	
Tearing Distance	: 43 +/- 0.15mm
Size of Slit	: 20mm
Reading of Scale	: 0 to 100% Range
Range of Weights	: 1600, 3200, 6400 gram
Scale Reading	: 0 to 100% of range
Accuracy	: ± 2% within entire range
Least count of scale	: 1%
Pendulum Release Mechanism	: Manual through brake release pin
Finish	: Powder coat

TWO ROLL MILL



SPECIFICATION	
Main Body	: M.S Body
Roller Size	: 150mm(D) × 300 mm (L)
Nip Gap	: 0.3 mm to 6.00 mm
Heating Load	: 2.6 Kw/ Roller
Drive	: Danfoss FC-51 (2 Hp)
Motor Detail	: 2HP
	: Specially designed displacement meter
	:
	: Copper slip rings for transferring heater
	: and temperature inputs to controller.
Motor make	: Rotomotive
Gear Box Make	: Rotomotive
Gear Box	: 30:1
	: Nip Gap Adjustment through Handle
	: Roller Speed can be adjusted with port and drive.
	: Digital PID Temperature Controller
Temperature Controller Make	: Selec
Power Supply	: 440 V AC / +N, E
Paint	: Powder Coated

DIGITAL TORQUE TESTER

SPECIFICATION	
Torque range	: 0 To 20 N.M
	: Table Top Model,
	: Sample holding through adjustable lead
	: screw and wheel.
Minimum holding	: 15 mm
Maximum Holding	: 110 mm
	: Capping and uncapping torque
	: performance will be done in this machine.
	: Peak torque will be seen.
Paint	: Powder Coating
Power	: 230 V AC, 50 Hzs.1 phase (OR AS PER
	: REQUIREMENT)



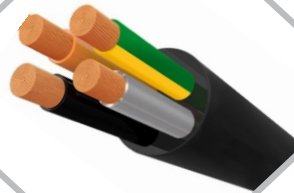
COLOR MATCHING CABINET

SPECIFICATION	
Light Source	: CWE, D 65, TL 84, UVB, TF LIGHT
Body	: M.S Powder Coated
Power	: 230 V AC, 50 Hz



TECH PLAST™
TESTING MACHINES

OUR SUPPLY CHAIN



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QUALITY IS NOT AN ACT. IT IS A HABIT