



INSPIRE[®]
PLASTOTHERM
— *Enduring Values...*

Lab Testing Equipment & **Pipe Socketing Machine**



www.inspireplastrotherm.com



INSPIRE[®]
PLASTOTHERM
— Enduring Values... —

ABOUT US



In the competitive era of globalization, Inspire Plastotherm keeps running principle consistently -“Think globally, footing locally, Active & Creative, enjoys challenge, Brand Marketing, and Upgrade Operation”.

Our all machine models offer quick response & high efficiency, power savings, low noise and other excellent characteristics.

"Your trust is our responsibility" Welcome to the world of INSPIRE PLASTOTHERM!

With 3000 square feet modern factory, advanced processing equipment and comfortable working condition Inspire Plastotherm make products are conceptually design to ensure the highest quality standards.

We are continually setting high standards in technology, quality, performance, service and support. Our Team of Professionals has all the requisite expertise related to PVC PIPE SOCKETING MACHINES and PLASTIC LAB TESTING EQUIPMENTS.

INSPIRE PLASTOTHERM has earned an excellent reputation for quality machines, reliability thorough machines best performance. The key to our success comes from innovative design, quality-machine performance, considerate after sales services. Due to the support of our experienced techno-commercial personnel, our customers place complete trust and reliance on INSPIRE PLASTOTHERM.

To prospect the future, we set our sights on stable quality of present products, research and develop latest technologies and enhanced design, expand the market reach and promote INSPIRE PLASTOTHERM. We expect our company to go ahead to the goal of diversification.

MISSION

Our mission is to deliver the most noteworthy quality products to our clients & to be consistent in providing our consumers with excellent product quality & value for Money



VISSION

To provide simple, understandable and economical, yet, efficient which results in customer's increased productivity and profitability with best serves from outsides.

IS Standards



HDPE AGRICULTURAL PIPE LAB - IS 4984



HDPE SPRINKLER PIPE LAB - IS 14151



PVC AGRICULTURAL PIPE LAB - IS 4985



PVC SEWAGE PIPE LAB (SWR) - IS 13592



**PVC ELECTRICAL CONDUIT
PIPE LAB - IS 9537 (iii)**



PVC CASING PIPE LAB - IS 12818



CPVC PIPE LAB - IS 15778



DRIP IRRIGATION PIPE LAB - IS 12786-13488



FILM LAB - IS 2508



WOVEN SACK FABRIC LAB - IS 14738



**ROTATIONAL MOUNDING
LAB - IS 12701**



Melt Flow Index Tester

Product:

INSPIRE PLASTOTHERM melt Flow Indexer is used to measure the flow behavior of a molten thermoplastic material.

Application:

Melt Flow Indexer has defined as the mass of Polymer, in grams, flowing in ten minutes through a capillary of a specific diameter and length by a pressure applied via prescribed alternative gravimetric weights for alternative prescribed temperatures.



Universal Tensile Testing Machine (Single Screw / Twin Screw)

Product:

The INSPIRE PLASTOTHERM UTM is to measure the materials with standing force capacity by pull it part and determine to what extent the materials stretches before breaking.

Application:

Tensile Test is the universal test applied to many polymers for checking the mechanical properties & it is the most important property as majority of mechanical loading & properties like tensile strength and modulus, elongation, compressive strength etc. calculated by using this machine



Hydrostatic Pressure Testing Machine (Computerized and Digital Model)



Product :

The INSPIRE PLASTOTHERM Hydrostatic testing machine are used to find out the resistance to internal pressure of R-PVC, C-PVC, U-PVC, MDPE, HDPE, LLDPE, Pipes, fitting and valves as per IS, BS, ASTM and so many Equivalent Standards.

The INSPIRE PLASTOTHERM Pressure testing machines are designed keeping versatility in mind of perform with different applications as specified in local and International standard.

INSPIRE PLASTOTHERM computerized machine is suitable for many praecox applications of GAS pipes, Hose pipe and for the organizations with quality and quantity developed base of above products.

Application :

This Testing way is used for will power of resistance of thermoplastic pipe to continuous internal water pressure at constant temperature. It is applicable to thermoplastic pipes Intended for the conveyance of fluids.



Hot Water Bath

Product :

INSPIRE PLASTOTHERM Hot water bath is to measure the material's properties under maximum temperature range for ambient to 95°C. Specially designed machine to have equal distribution of water temperature.

Application :

Hot water bath is usually used for short and long term test to check material's pressure sustain capacity under desired highest temperature range for all the relevant IS, ASTM and other equivalent standards.



Cold Water Bath



Product :

INSPIRE PLASTOTHERM Cold water bath is to measure the material's properties under minimum temperature range for ambient to 15°C. Specially designed machine to have equal distribution of water temperature with in-built chilling unit facility.

Application :

Cold water bath is usually used for short and long term test to check material's pressure sustain capacity under desired lowest temperature range for all the relevant IS, ASTM and other equivalent standards.



Dumbbell Press

Product :

INSPIRE PLASTOTHERM Dumbbell press used to cut dumbbell shape tensile specimen. It needs following dies.

- a) Dumbbell die.....75mm
- b) Dumbbell die.....115mm
- c) Dumbbell die.....150mm



Hot Air Oven

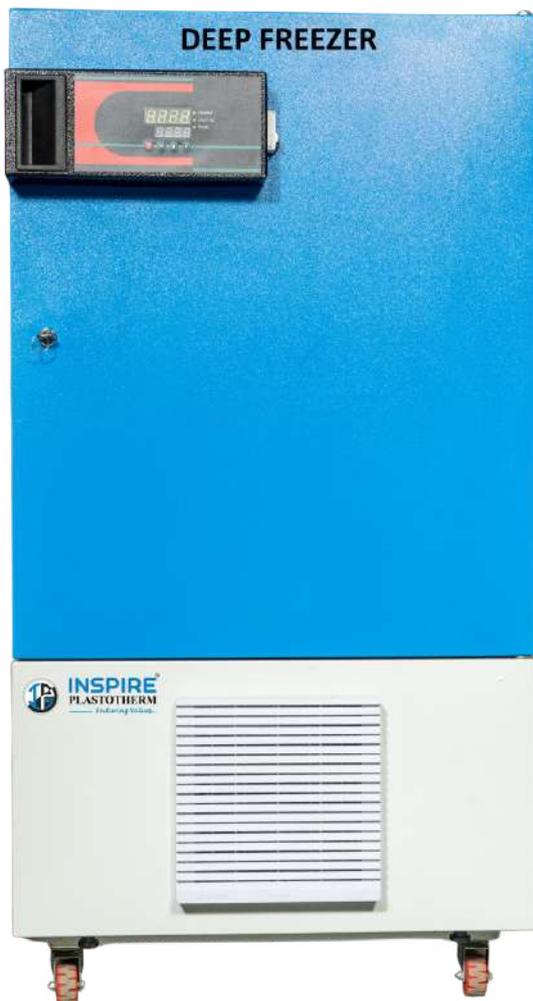
Product :

INSPIRE PLASTOTHERM Hot air oven is used for multiple test application for plastics like shrinkage, reversion & Moisture content.



Application :

This test method is applicable to distinguish between properly and improperly molded plastics. It can be used to determine whether cold slugs or shrinkage areas are present.



Deep Freezer / Zero Degree Chamber

Product :

INSPIRE PLASTOTHERM Deep freezer is used to maintain temperature range for ambient to 0°C. A well designed machine with special grade of stainless steel.

Application :

Deep freezer machine is used to check product's freezing capacity for the temperature range of ambient to 0°C or lowest as specified in the standard. This machine is generally used before checking product's performance against Impact strength.

DI-Chloromethane Bath

Product :

INSPIRE PLASTOTHERM Di-chloromethane bath is used to check the gelation in rigid pipe. This method is based on various national and international standards, where specified test temperature and duration concludes resistance of material against dichloromethane.

Application :

A piece of product of specified length, chamfered at one end to an angle dependent on its thickness, is immersed for a fixed period of time in a thermo controlled dichloromethane bath in order to verify that the material is not attacked at the temperature specified in the product standard. The test pieces are dried in air and then examined to observe whether the material has been attacked or not.



HDT (Heat Deflection Tester) / VSP(Vicat Softening Point) TESTER

Product :

INSPIRE PLASTOTHERM Heat Deflections Test Apparatus is used to determine the defecation temperature limit for specific application.

Application :

Plastic Materials being heat sensitive in nature has lot of bearing on its environment for its performance. Though their behavior in thermal conditions is very complex, some simple yield tests are used to predict its behavior and performance in given condition. This is one such yield point very commonly employed with such demanding conditions.

Reversion Oil Bath

Product :

INSPIRE PLASTOTHERM Reversion oil bath is made of inner SS chamber with outer MS body construction to check shrinkage properties of the material under specified temperature range in the oil.

Application :

A product specimen of specified size has been hanged in to the bath, where the specimen must be drowned in to the oil. The reactions of the material properties has been checked under certain temperature range for specified time duration as per standard.



Ash Content / Muffle Furnace

Product :

INSPIRE PLASTOTHERM Ash Content Tester is used to find out the filler content.

Application :

An Ash test is used to determine if a material is filled. The Ash test result is expressed as % ash. The total ash content equals the weight of the ash divided by the weight of the original sample multiplied by 100%.



Carbon Black Content Tester

Product :

INSPIRE PLASTOTHERM Carbon Black Content is used to determine the carbon black content of polyethylene compounds.

Application :

This Test method covers the determination of the carbon black content in polyethylene, polypropylene, and polybutylene plastic. Determinations of carbon black content are made gravimetrically after pyrolysis of the sample under nitrogen.



Carbon Black Dispersion Tester

Product :

INSPIRE PLASTOTHERM Carbon Black Dispersion is used to determine the carbon atoms dispersion in polyethylene compounds.

Application :

This Test method covers the dispersion and bonding properties between two atoms of carbon in the polyethylene compound. Where the product specimen is being heated and then observed with the help of microscope DOM.



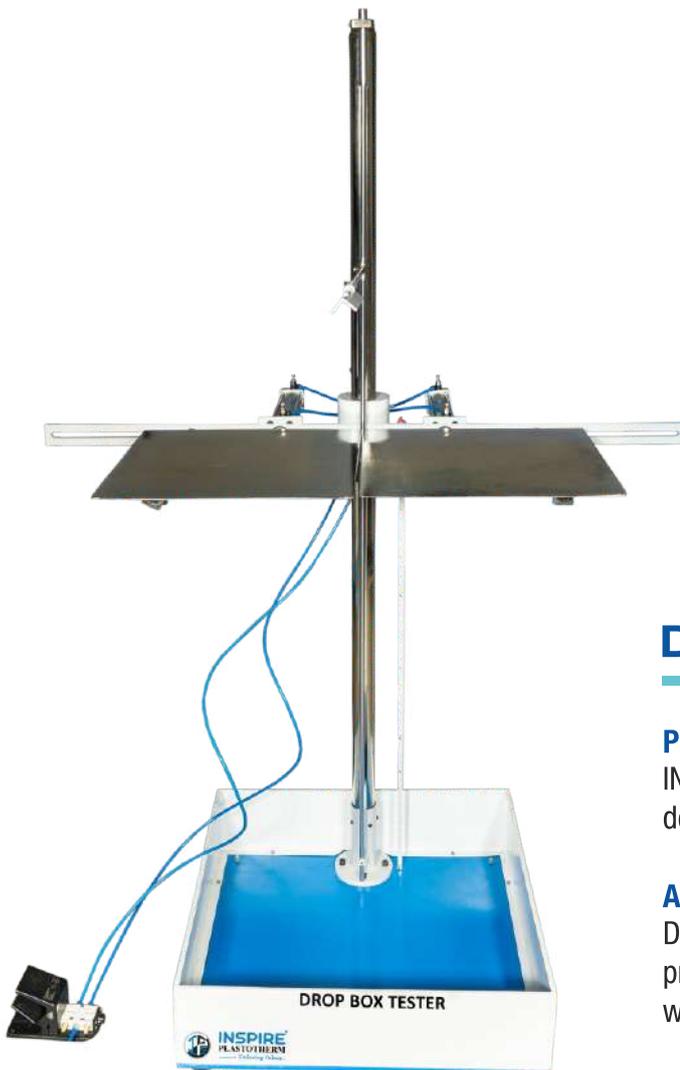
Impact Tester

Product :

INSPIRE PLASTOTHERM Pipe impact Tester is used to measure the impact behavior of a plastic pipe.

Application :

The impact resistance of thermoplastic pipe and fittings relates to its suitability for service and to quality of the processing. It may also provide a relative measure of the tested material's resistance to breakage during handling and installation, and in non-buried applications, to in-service breakage.



Drop Tester

Product :

INSPIRE PLASTOTHERM Drop tester is used to determine the impact strength of dropping.

Application :

Drop Tester is the important phenomenon to assess the product impact. The energy absorbed by a specimen when it breaks can be estimated.



O.I.T. (Oxidation Induction Tester) Machine



Product :

INSPIRE PLASTOTHERM OIT Test are used to study the behavior of materials towards the heat as a functional at temperature and time.

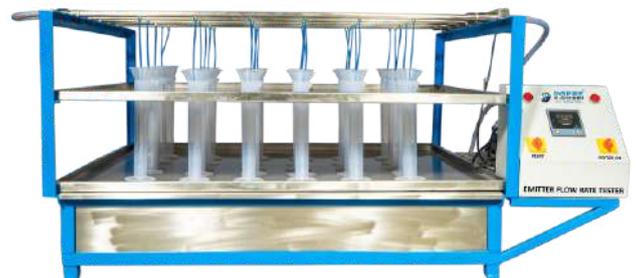
Application :

INSPIRE PLASTOTHERM offer Oxidation Induction Time Test apparatus based on Differential Thermal Analysis (DTA) principle, With PID Based Micro Controller With 0.1°C least count. Delta Temperature Time Graph Display facility on your computer monitor with oxidation induction time section parameters.



Emitting Flow Rate Tester

Product : INSPIRE PLASTOTHERM Emitting flow rate tester are used to study the uniformity of emission rate.



Application : INSPIRE PLASTOTHERM Emitting flow rate tester offered with all necessary measuring cylinders & calibrated borosil glass measuring cylinder. With twenty eight emitting discharge test stations. With suitable angle structure to hold specimens as per specified length in the standard.



Opacity Tester



Product :

INSPIRE PLASTOTHERM Opacity Tester is to find out the opacity of the plastics films.

Application :

Opacity testing is a process of testing how opaque and also how transparent a particular substance is. Opacity testing can also be used to test the quality of Plastics Films.



Auto Density Tester



Product :

INSPIRE PLASTOTHERM it is weighed in air and then suspended in a liquid (usually water).

Application :

High Precision Balances Incorporate advanced Electro Magnetic Force Compensation (EMFC) technology for offering unmatched accuracy and reliability, coupled with unique ADC circuit with inbuilt temperature compensation to offer a very high stability up to a resolution of 6 million counts. All adjustment parameter are programmable to take care of any minor mismatch of different sub assemblies & Balances are configured with these parameters.

HUMIDITY / CONDITIONING CHAMBER

Product :

INSPIRE PLASTOTHERM Humidity chamber is used to determine the effect of specified environmental condition.

Application :

Humidity Chamber can use test specimens for further physical Tests and also as environmental conditions for conducting testing of specimens.



Flatening / Compression Tester

Product :

A compression test determines of materials under crushing loads.

Application :

The specimen is compressed and deformation at various loads is recorded. Compressive stress and strain are calculated and plotted as stress-strain diagram which is used to determine elastic limit, proportional limit, yield point, yield strength and, for some materials, compressive strength.

E.S.C.R. (Environment Stress Cracking Resistance) TESTER

Product : INSPIRE PLASTOTHERM E.S.C.R. is used for determining the susceptibility of ethylene plastics, to Environmental Stress Cracking when subjected to certain conditions. Bent specimens of the plastic having controlled imperfections are exposed to the action of a surface-active agent. These tests are normally employed for routine inspection purpose.

Application : Environmental stress cracking is a property that is highly dependent upon the nature and level of the Stress applied and on the thermal history of the specimen. This equipment consists of a heating bath to hold water or surface active liquid used for the test.





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FOR LOCATION



FOR WEBSITE

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