

ELECTRIC CONDUIT SYSTEMS MOULDS

MATERIALS

- > PVC / PVC-U / C-PVC / Filled Polymers
- > ABS/PP/PE/PA/POM/PPSU/TPE/PET/Filled Polymers

TECHNOLOGIES

- > Durable mechanism
- > Stainless steel cores and pins
- > Quick cycle time
- > Effective cooling system
- > Robust POLINAR core system
- > POLINAR CAM system - core pulling
- > POLINAR hot runner manifold system



ABOUT US

We are a team who had come together to give shape to every type of plastic and produce engineering solutions.

Our team of professionals possesses education of international standards and technical equipment, and is purposefully directed to produce top notch technological systems and is able to provide these systems to their customers in a manner of quality.

Our CNC machines and harnessing equipment are of high-quality and programmed with the logic of mass production.

All of the engineering solutions are discussed in the environment of computerized design and analysis in pre-production phase and our customers are served with this quality of approach.

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ENGINEERING PLASTICS

MATERIALS

- > ABS / PP / PE / PA / POM / PPSU / TPE / PET / Filled Polymers

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- > Durable mechanism
- > Stainless steel cores and pins
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HDPE BUTT WELDING FITTING MOULDS

MATERIALS

- > HDPE100 / LDPE / MDPE

TECHNOLOGIES

- > Durable mechanism
- > Certified steels
- > Quick cycle time
- > Modular concept of moulds with inserts
- > Effective cooling system
- > POLINAR hot runner manifold system



CORRUGATED SYSTEM FITTING MOULDS

MATERIALS

- > PP / PE / POM Filled Polymers

TECHNOLOGIES

- > Durable mechanism
- > Stainless steel cores and pins
- > Quick cycle time
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MATERIALS

- > PP / PE Filled Polymers

TECHNOLOGIES

- > Durable mechanism
- > Stainless steel cores and pins
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PP SEWAGE FITTINGS MOULDS

MATERIALS

- > PP-H / PP-B / PE / Filled Polymers

TECHNOLOGIES

- > Durable mechanism
- > Certified steels
- > Quick cycle time
- > Effective cooling system
- > Robust POLINAR core system
- > POLINAR CAM system - core pulling
- > POLINAR hot runner manifold system



PP IRRIGATION SYSTEMS MOULDS

MATERIALS

- > PP / PE / POM Filled Polymers

TECHNOLOGIES

- > Durable mechanism
- > Stainless steel cores and pins
- > Quick cycle time
- > Effective cooling system
- > Robust POLINAR core system
- > POLINAR CAM system - core pulling
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PPR-C SANITARY FITTINGS MOULDS

MATERIALS

- > PPR-C / PERT / PE (with Brass inserts)

TECHNOLOGIES

- > Durable mechanism
- > Certified steels
- > Quick cycle time
- > Effective cooling system
- > POLINAR hot runner manifold system



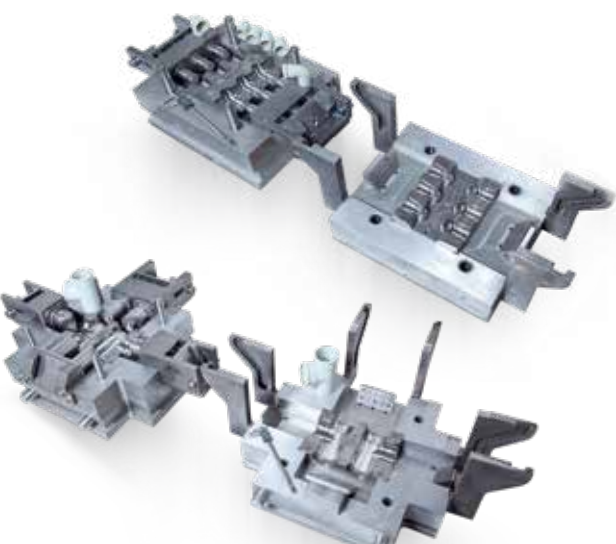
PVC SEWAGE FITTINGS MOULDS

MATERIALS

- > PVC / PVC-U / C-PVC Filled Polymers

TECHNOLOGIES

- > Durable mechanism
- > Stainless steel cores and pins
- > Quick cycle time
- > Effective cooling system
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PVC-U GLUE SYSTEM FITTINGS MOULDS

MATERIALS

- > PVC / PVC-U / C-PVC / Filled Polymers

TECHNOLOGIES

- > Durable mechanism
- > Stainless steel cores and pins
- > Quick cycle time
- > Effective cooling system
- > Robust POLINAR core system
- > POLINAR CAM system - core pulling
- > POLINAR hot runner manifold system



PLASTIC INJECTION MOULDS MANUFACTURE



PLASTIC TEST EQUIPMENTS

WE MANUFACTURE MOULDS OF THE **WORLD**

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BALL VALVES TEST UNITS FOR PLASTIC PIPES

DESCRIPTION

Statutory standards prescribe the verification of carbon black content of polyolefin plastics. The test method is based on pyrolytic decomposition of the material in an inert gas flow (nitrogen). This means that the remaining quantity is burned once again under forced ventilation at the same temperature and the carbon black content determined by means of weight difference.



ACCESSORIES



CARBON BLACK TESTER

DESCRIPTION

Statutory standards prescribe the verification of carbon black content of polyolefin plastics. The test method is based on pyrolytic decomposition of the material in an inert gas flow (nitrogen). This means that the remaining quantity is burned once again under forced ventilation at the same temperature and the carbon black content determined by means of weight difference.



MFI / MFR TEST DEVICE

DESCRIPTION

The MFI/MFR tester combines the determination of the melt flow rate (MFI) and melt volume rate (MFR) of thermoplastic materials into one test procedure under specified temperature and load conditions.



CNC MILLING MACHINE FOR TEST BARS

DESCRIPTION

The test bar milling machine enables bar-shaped plastic samples to be produced for tension, pressure, bending and flexural impact tests in accordance with a wide range of standards. The CNC milling machine is a table-top unit with electrically locking protective doors. Pre-configured machining programs for all common bar shapes and visualisation via touch screen display makes it very easy to operate the milling machine. Up to five test bars can be produced in one milling process. The all-round enclosure ensures safety at the workstation during the milling process. A swarf extraction system ensure the workstation remains clean.



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END CLOSURES FOR PIPE TESTING

DESCRIPTION

The internal pressure creep test is a test procedure for determining the strength of thermoplastic pipes to constant hydrostatic internal pressure at a constant ambient temperature. The samples are tested either for a specified period or until they fail. The test duration is subject to the tension generated by the internal pressure and the temperature.



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HYDROSTATIC INTERNAL PRESSURE TESTER

DESCRIPTION

The internal pressure creep test is a test procedure for determining the strength of thermoplastic pipes. The specimens are subjected to a constant hydrostatic internal pressure at a constant ambient temperature either for a specified period or until they fail. The test duration is subject to the tension generated by the internal pressure and the temperature. It combines the tester's exceptional reliability with simple operation without making any compromises with respect to precision and flexibility.



TEST TANKS FOR PIPE TESTING

DESCRIPTION

The internal pressure creep test is a test procedure for determining the strength of thermoplastic pipes. The samples are subjected to a constant hydrostatic internal pressure at a constant ambient temperature either for a specified period or until they fail. The test duration is subject to the tension generated by the internal pressure and the temperature. The test tanks are specially designed for testing thermoplastic pipes and fittings. The high reliability, durability of the materials used and the constant temperatures in the test tank with respect to both volume and time provide particularly reliable test conditions. The efficient use of energy with low servicing and maintenance costs guarantee efficient long term operation. There are a wide range of connection options, enabling the tanks to be flexibly adapted to various operating conditions.



FALLING WEIGHT IMPACT TESTER

DESCRIPTION

The falling weight tester is used to determine the external impact resistance of thermoplastic pipes using the staircase or round-the-clock method.



RING STIFFNESS TESTER

DESCRIPTION

The testing machines is designed to determine the ring stiffness, ring flexibility of thermoplastic pipes. Both feature large compression plates which allow performing the test on the respective diameter range and on pipes with lengths of up to one meter. A PC based operational software enables clear representation of the machine and contributes to the usability. Different operational modes allow to either apply a constant compression to the sample or to continuously move the compression plates towards each other with constant speed. In both cases the applied or resulting forces and distances are recorded and the respective graphs are produced. Additionally the deflection of the outer or inner diameter of the pipe can be measured and recorded by a specific measuring system.



TEST OVEN FOR PIPE TESTING

DESCRIPTION

The internal pressure creep test is a test procedure for determining the strength of thermoplastic pipes. The samples are subjected to a constant hydrostatic internal pressure at a constant ambient temperature either for a specified period or until they fail. The test duration is subject to the tension generated by the internal pressure and the temperature. The PTE test ovens are specially designed for testing thermoplastic pipes and fittings. The high reliability, long service life of the materials used and the constant temperatures in the test oven with respect to both volume and time provide particularly reliable test conditions. The efficient use of energy with low servicing and maintenance costs guarantees efficient longterm operation. There are a wide range of connection options, enabling the ovens to be flexibly adapted to various operating conditions.



UNIVERSAL TENSILE TESTER

DESCRIPTION

The universal tensile tester is used for performing tension, pressure or bending tests. The classic application is the tensile test. This involves subjecting a sample to an increasing tensile load until it breaks. The force-deflection diagram generated during this test provides information on the load-bearing capacity, elasticity and plastic deformation of the material sample.



THERMAL CYCLING TEST UNIT FOR PIPE SYSTEM

DESCRIPTION

High constancy of temperature by large reservoirs
 Static pressures up to 10 bar
 Accuracy pressure regulation
 Automatic failure detection
 Simultaneous testing of two separate pipe systems independently.
 Automatic test procedure with programmable numbers of cycles and cycle periods, temperatures, etc.
 Test chamber (optionally with fixing lates)
 Cold water tanks with chiller or heat exchanger, hot water tanks with heaters
 Flow measurement and regulation automated.
 Automatic calculation and application of prestress needed by the standards via Stepper Motors

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MORE INFORMATION FOR TEST EQUIPMENTS
www.polinar.com.tr/english

