

# IZOD/ Charpy Impact Tester



## Product Info :

The Impact tester is capable of performing both Izod /Charpy Impact Test. The equipment is beautifully designed that precisely conforms to international test standards and allows easy testing procedure as well as delivering user and product safety features. The equipment is used in plastic industries to measure the amount of energy required to break a plastic specimen by striking it through a free fall pendulum.

Plastics are used for manufacturing a variety of products for domestic and industrial use. They are used for making products such as bushes, switches, gaskets and many more. As these plastic products are used in some very crucial applications, the quality of these plastic products must be of utmost level. This is why the manufacturers must conduct proper testing of the products with great accuracy and precision.

During their end-use, they tend to experience different types of forces and impacts that can damage the material and lead to the absolute failure of the plastic. Hence, it is vital for the manufacturer or the designer that the material they are producing must be strong enough to bear the impacts or forces they may have in their future use. The most renowned and popular test method that is globally accepted to evaluate the impact strength of plastic is “Izod/Charpy Impact Test”. Izod and Charpy are two distinct methods to evaluate the impact strength. To perform the test, the sample is notched at a defined depth and measurement. This notched material is kept and tightened in the equipment. A pendulum that may be a bar or a circular plate is fixed at a defined height and released on the specimen with full force. The Impact absorbed by the plastic material defines its quality.

## TECHNICAL DATA :

- Model Number: PCICIT-1
- Impact Energy Range Applied: 0 to 25 Joules
- The release angle of the pendulum: 150 Degrees
- Number of Hammers: 2 powder-coated hammers for Charpy & Izod Tests
- Paint Applied: Powder Coated
- Power Supply Requirement: 230 V AC, 1 Phase, 60 Hz. (Customizable as per client requirement)

## FEATURES :

- Microcontroller based setting to set sample dimensions, ensure zero error while testing, and selection of parameters like test standard for the process (IS, ISO or ASTM). It also helps in hammer selection along with a precise display of impact energy in joules and Impact Strength in J/mt/J/mt<sup>2</sup>. One can also view the corresponding angle in degrees.
- High-tech LCD screen with up to 10 test memories with average test value delivery for the selected rounds of the test. It also notifies faulty warnings on the screen.
- Easy and Safe release mechanism for Hammers.
- Supplied with incremental plates attached to these hammers to convert them for 2nd, 3rd, 4th & 5th scale test parameters.
- Screw (vise) type powder coated bench for Izod test and Sample holding stand for Charpy test is available as per global standards.
- The instrument comes with different levels of scales.
- Duly powder coated body for better safety from corrosion and state-of-the-art looks.

## Our Valuable Customer



Pacorr Testing Instruments Pvt. Ltd.

11/15, Site-4 Industrial Area, Sahibabad, Ghaziabad- 201010, Contact No: +91-8882149230, Email Id: info@pacorr.com