

GENERAL INTRODUCTION

Notched Izod Impact is a single point test that measures a materials resistance to impact from a swinging pendulum. Izod impact is defined as the kinetic energy needed to initiate fracture and continue the fracture until the specimen is broken. Izod specimens are notched to prevent deformation of the specimen upon impact. This test can be used as a quick and easy quality control check to determine if a material meets specific impact properties or to compare materials for general toughness.

CMS Metrology product both the IZOD and Charpy impact tester, in dial display, LCD screen display and computer control used determine the impact ductility of nonmetallic materials, such as Rigid thermo-plastic and thermosetting plastic, thermosetting plastic and thermo-plastic after fiber-reinforced. It is widely used in the industries of plastic products, plastic manufacture, petro chemical etc, University, scientific research institute and commodity inspection department.



REFERENCE

IZOD Test: The specimen is clamped into the pendulum impact test fixture with the notched side facing the striking edge of the pendulum. The pendulum is released and allowed to strike through the specimen. If breakage does not occur, a heavier hammer is used until failure occurs. Since many materials (especially thermoplastics) exhibit lower impact strength at reduced temperatures, it is sometimes appropriate to test materials at temperatures that simulate the intended end use environment.

ISO 180: "Plastics – Determination of Izod impact strength" **ASTM D256:** "Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics"

Izod impact test Specimen size of ISO 180: The standard specimen for ISO is a Type 1A multipurpose specimen with the end tabs cut off. The resulting test sample measures 80 x 10 x 4 mm. The depth under the notch of the specimen is 8mm.

LAS IMAGENES PUEDEN VARIAR DEL ORIGINAL; INFORMACIÓN SUJETA A CAMBIO SIN PREVIO AVISO

KEY FEATURES

1. LCD display, IZOD Test model.
2. Adopts rotate encoder grating side angle technology, high accuracy, high reliability, and big measuring range.
3. Support vice, pendulum is nickel coating, good appearance and anti-corrosion.
4. Standard ISO 180, ASTM D256.
5. Indicate impact energy, impact strength, initial angle, rising angle, energy loss etc.
6. Automatic correcting the energy loss; Auto-print and save the records.

MAIN TECHNICAL SPECIFICATION

MODEL	XJUD-5.5
Impact energy	1J, 2.75J, 5.5J
Impact speed	3.5m/s
Pendulum initial angle	160°
Free impact energy loss	Less than 0.05J
Initial potential energy error	Less than ±1.5%
Pendulum center to specimen center distance	322mm
Distance from impact blade to upper surface	22mm
Blade Angle Radius	R=0.8mm
Power	220V, 50HZ
Display Type	LCD display
Specimen Clamping Type	IZOD
Standard Accessories	Loadframe, pendulum(1J, 5.5J), pendulum weight (2.75J), vice adjusting plate, spanner, power cord, manual etc.

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MAIN ACCESSORIES

Frame	1 Set
1J, 2.75J, 5.5J impact pendulum	1 Set
Specimen vice	1 Set
Striker/vice for ISO 180 (standard bar, convex, small bar)	3 Sets
Adjusting plate	1 Set
Centering plate	1 Set
Hexagonal spanner	1 Set
Power wire	1 Set
Documents (Manual, packing list, certificate)	



Large energy Charpy

Vice with nickle coating



Plastic V notch impact



Organic glass V notch impact
sample 80*10*4mm

OPTIONAL EQUIPMENT

1. IZOD/Charpy integrated impact tester, XJJUD-50F
2. Striking edge & vice for ISO 9854 (Standard bar test piece, Convex test piece Small bar test piece)
3. Test sample notch machine (QK-20, ZQK-20, ZQK-20A)



4. Universal Sample Preparation Machine (model: WZY-240)



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