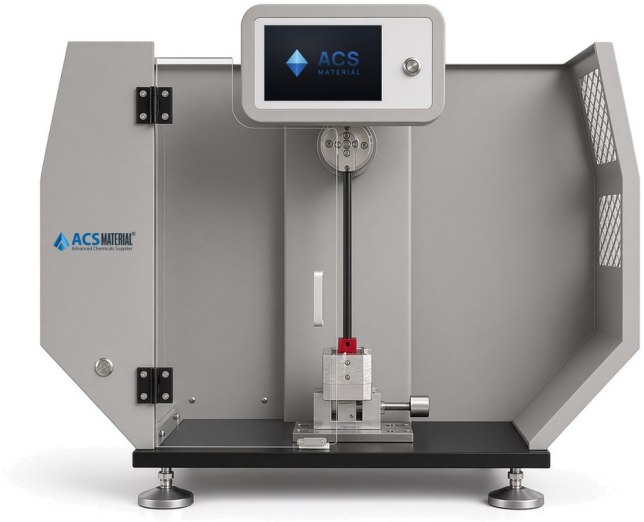
TECHNICAL DATA SHEET

Polytevo Series Izod Impact Tester

Digital Izod impact tester · 2.75 / 5.5 / 11 / 22 J pendulum energies · 150° lift angle · color touch screen · micro printer



Polytevo Series Izod Impact Tester (ACS-4021) — representative configuration

The Polytevo Series Izod Impact Tester (ACS-4021) is a digital Izod impact tester with four pendulum energies, encoder measurement and a built-in printer. Image shown for reference; final configuration is confirmed in the quotation.

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SECTION I

Product Overview

Polytevo Series Izod Impact Tester (ACS-4021) is an Izod impact tester with pendulum energies of 2.75 J, 5.5 J, 11 J and 22 J, a 150° lift angle, a color touch screen and a built-in micro printer, for measuring the impact toughness of plastics and other non-metallic materials.

The ACS-4021 measures the impact toughness of non-metallic materials such as plastics, reinforced nylon, fiberglass, ceramics, cast stone and insulation materials. It has a simple structure and convenient operation, with automatic correction of energy loss and printing of test reports, and is a common instrument for quality inspection in research institutions, universities and non-metallic material producers.

SECTION II

Core Advantages

— **Four pendulum energies** 2.75 J, 5.5 J, 11 J and 22 J (2.75 J hammer with 5.5 J, 11 J and 22 J weight sets).

— **Digital encoder** High-resolution digital encoder for higher and more stable angle measurement.

— **Low friction** An aerodynamically shaped hammer and ball bearings greatly reduce friction losses.

— **Selectable units** Results in J/m, kJ/m², kg-cm/cm or ft-lb/in.

— **Intelligent controller** High-precision intelligent controller with an LCD display for direct, accurate data reading.

— **Carbon-fiber pendulum rod** The carbon-fiber pendulum rod improves rigidity in the impact direction and concentrates impact mass at the pendulum center.

— **Results and data storage** Final results are calculated automatically; 12 data groups can be saved and averaged.

— **Printed reports** Built-in micro printer prints the test data and report.

SECTION III

Specifications

Technical data — ACS-4021

Specifications	
Parameter	**Specification**
Brand	Polytevo Series by ACS Material
Product Name	Polytevo Series Izod Impact Tester
Model	ACS-4021
SKU #	ERP7IIT1
Product type	Digital Izod impact tester
Impact energy	2.75 J, 5.5 J, 11 J, 22 J
Pendulum angle	150°
Impact speed	3.5 m/s
Distance between pendulum center and impact blade	335 mm
Distance between impact blade and jaw	22 mm
Impact blade radius	R = 0.8 ± 0.2 mm
Control mode	Color touch screen
Machine dimensions (L × W × H)	850 × 350 × 690 mm
Packing dimensions (L × W × H)	890 × 400 × 740 mm
Power supply	AC 220 V ±10%, 50 Hz, 200 W
Test method reference	ISO 180; ASTM D256

Accessories — Pendulum and fixture

Accessories	
Accessory	**Description**
Pendulum hammer and weight sets	2.75 J impact hammer with 5.5 J, 11 J and 22 J weight sets.
Izod specimen fixture and centering template	Izod specimen fixture combined on the machine; centering template for positioning the specimen.

Scope of delivery

— **Standard configuration:** the Izod impact tester with tool box, 2.75 J hammer, 5.5 / 11 / 22 J weight sets, centering template, specimen fixture, hex wrench, micro printer and printing paper.

— **Scope of supply** — final accessories and scope of supply are confirmed in the quotation.

SECTION IV

Applications

For measuring the Izod impact toughness of plastics, reinforced nylon, fiberglass, ceramics, cast stone and insulation materials.

Product value: Izod impact testing from 2.75 J to 22 J with automatic energy-loss correction, 12 stored data groups and printed reports.

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