Dynisco Plastics

Advanced Pendulum Impact System API

Features

- High mass, traditional pendulum design concentrates energy at the impact point with minimal energy loss due to vibration.
- Powerful on-board microcomputer for precision calibration and test result calculations.
- Easy-to-change pendulum and weight design covers a wide energy range with less hardware. Heavy-duty pendulum design withstands non-break impacts.
- ISO and ASTM Standards compliance built-in! Easy-to-read 4-line display guides the operator through the test.
- Universal fixture design easily adapts to all Izod and Charpy configurations and specimen types with minimal hardware changes. Easily adapts to custom specimen fixtures.
- Advanced electronic braking system provides variable pendulum starting angle for precise energy and velocity test requirements. The brake catches and holds the arm to prevent double strikes.

Description

The API is a high-performance pendulum impact tester that precisely determines absorbed impact energy and resistance to breakage of plastic specimens. Innovative mechanical design features make this instrument the most cost-effective and accurate impact tester available on the market. It meets and exceeds all ASTM and ISO requirements and has the flexibility to satisfy future test standards.

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Specifications

PHYSICAL SPECIFICATIONS

Dimensions:	457mm W x 70mm H x 850mm L (18" W x 31" H x 33.5" L)
Weight*:	150kg (300 lbs)
Electrical:	90 to 260Vac, 50/60Hz, 120W
Major Reference Specifications:	ISO 179, ISO 180; ASTM D256, D6110, D4812, et al.
Max. Available Energy:	25 Joules standard, 50 Joules extended, range option
Resolution:	0.005 J
Energy Ranges:	0.5 to 50 J (0.37 to 36.9 ft • lbf)

* Weight of base unit without installed testing components or optional table.

ENVIRONMENTAL SPECIFICATIONS

Indoor Use

Altitude:	Up to 2000m
Ambient Temp:	60 to 85°F (16 to 29°C)
Relative Humidity:	80% maximum
Main Supply Voltage Fluctuations:	±10% of the nominal voltage
Overvoltage Category:	II
Pollution Degree:	2
Workspace:	To operate the instrument and perform routine maintenance, approximately 90 x 60m (3 x 2 ft) of workspace is recommended.

All dimensions are in inches (millimeters).

Refer to www.dynisco.com for access to Operator Manual and other support documentation.

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