

QC-639S(T) Digital Impact Tester

Standard

ASTM D256 · ASTM D6110 · ISO179 · ISO180 · ISO13802

Description

QC-639S/T series tester can be used to determine impact resistance of polymers. It use the energy conversion to calculate the energy absorbed by the sample after impact. The precise of impact hammer will highly affect the center position of its mass and impact speed, which in turn influence the test accuracy. QC-639S/T is equipped with 7" touch screen. It uses encoder to detect the angle for calculating the energy and has built-in correction system for the loss causing by the friction of wind resistance. For increase the test precise, there is an optional dedicated software to analyze, record and generate report and so on. Izod/Charpy is the most common methods. QC-639S/T can support to change the impact hammer and vise rapidly to satisfy different test condition and standards (ASTM & ISO).



Izod Impact Hammer



Charpy Impact Hammer

Change Impact Hammer Rapidly



Izod



Charpy

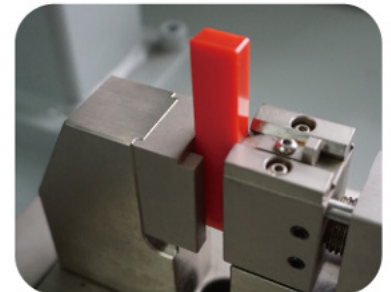
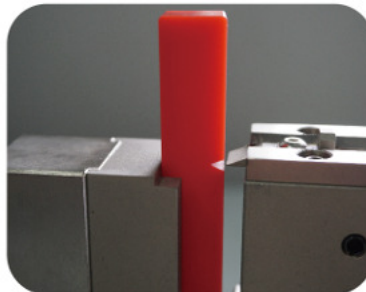
Specification

Model	QC-639S		QC-639T
Test Method	IZOD · CHARPY		
Initial Angle	150°		
Test Capacity	Izod 1-11J ASTM Charpy 1-11J ISO Charpy 1-5J		Izod 1J-25J / Charpy 1J-25J (50J (optional))
	20-80% of the max. capacity is the suggested test range.		
Energy Accuracy	0.01J		
Angle	Min. display angle is 0.05 degree.		
Operation	<ul style="list-style-type: none"> ■ With 7" touch screen to show the impact energy value. ■ Able to save over 50 results. ■ The vise has position mechanism to ensure the sample position. ■ Able to change vises for Izod/Charpy to satisfy different test standards. ■ Provide multi-unit to display. 		
Accessories	Calibration table for hammer, Manual, Hex Wrench Set		
Optional Items	<ul style="list-style-type: none"> ■ Impact hammers for different energy test and different vises ■ QC-640 Impact Specimen V-notcher ■ Optional analysis software 		
Power Supply	110~240V / 3A		
Dimension	Full Cover 90 x 36 x 102 cm Half Cover 90 x 36 x 84 cm		Full Cover 110 x 50 x 117 cm Half Cover 114 x 50 x 84 cm
	Full Cover 140 Kg Half Cover 110 Kg		Full Cover 400 Kg Half Cover 370 Kg

Positioning Mechanism

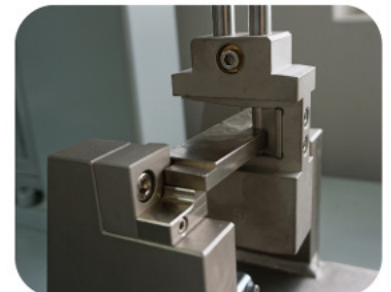
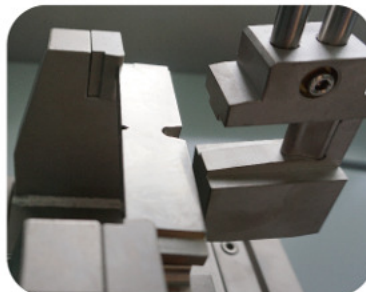
Izod

Triangular positioning block will ensure the specimen placing accuracy.



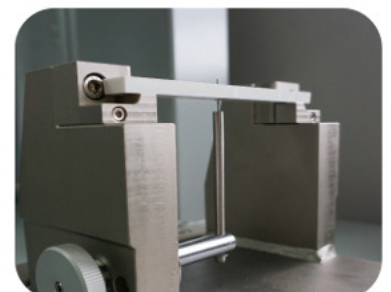
Charpy

Positioning vise can ensure the impact place is at the center of samples.



Charpy

Positioning pin can ensure the sample be placed at the impact center.



Display (Standard)

- Data Information: able to save with USB
- Test Setting: with built-in ISO and ASTM standards, support the test by changing the relative impact hammers and vises.
- Language: Chinese, English, Japanese
- Metric/Imperial units switching
- Able to check the resistance and do the loss energy correction.

Energy	Angle	Impact Angle
0.00	0.00	136.40
Time 1.815	Specimen Energy	Specimen E/T
1	1.006	304.842
2	3.731	1141.090
3	4.020	1225.590
4	0.756	230.551
5	0.381	116.091

Resistance Test
Angle 5.85
Cycle 0
Time 0.000

Test
Sample Thickness 000003.28 mm
Sample Width 000010.16 mm
Test Type IZod
Test Specification ASTM
Energy 5.5J
Language English

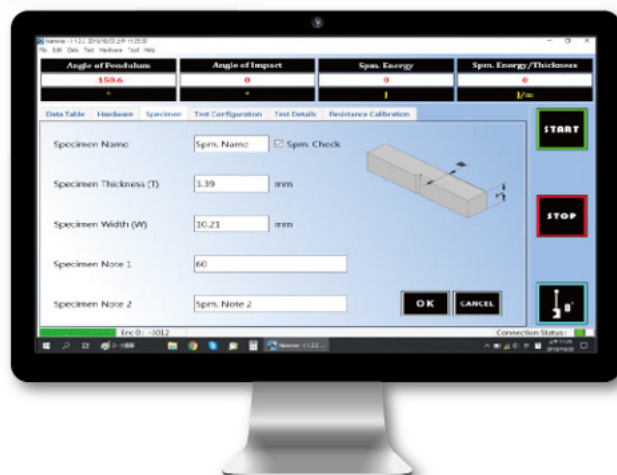
Calibration
Cycle 03
Energy Consumption 00.042
Real Time Information
Angle 0.00

Unit
Energy J
Gravity m/s ²
Mass kgf
Length mm
Specimen E/T J/m
Specimen E/A J/m ²

Specimen Energy	Specimen E/T	Specimen E/A	Impact Angle
1 1.006	304.842	0.030	143.15
2 3.731	1141.090	0.112	134.25
3 4.020	1225.590	0.121	120.90
4 0.756	230.551	0.023	66.15
5 0.381	116.091	0.011	136.40

Software (Optional)

- Data Information: able to save with USB
- Test Setting: with built-in ISO and ASTM standards, support the test by changing the relative impact hammers and vises.
- Able to check the resistance and do the loss energy correction.



Angle of Foundation	Angle of Impact	Spec. Energy	Spec. Energy/Thickness
1 1.006	304.842	0.030	143.15
2 3.731	1141.090	0.112	134.25
3 4.020	1225.590	0.121	120.90
4 0.756	230.551	0.023	66.15
5 0.381	116.091	0.011	136.40

Specimen Name	Specimen Thickness (T)	Specimen Width (W)	Specimen Note 1	Specimen Note 2
Spec. Name	3.39 mm	30.23 mm	60	Spec. Note 2

Angle of Foundation	Angle of Impact	Spec. Energy	Spec. Energy/Thickness
1 1.006	304.842	0.030	143.15
2 3.731	1141.090	0.112	134.25
3 4.020	1225.590	0.121	120.90
4 0.756	230.551	0.023	66.15
5 0.381	116.091	0.011	136.40

*Cometech reserves ultimate modification right of product specification.



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