DIN EN
ISO 9001

DAkkS
Deutsche
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D-K-15093-01-00
DIN EN ISO
IEC 17025
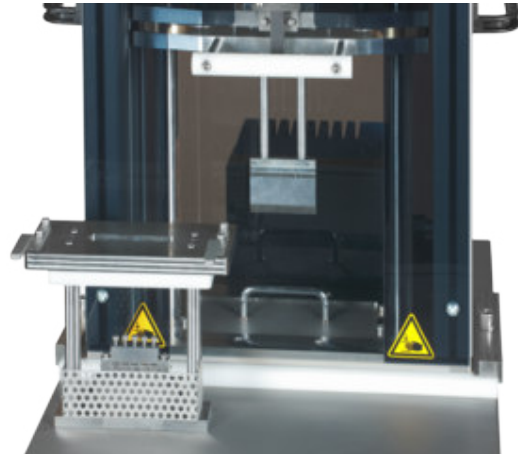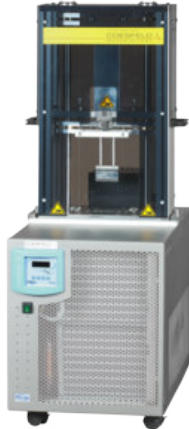
COESFELD
M A T E R I A L T E S T

24-901-000 Brittleness Temperature Tester

Standards

ISO 812, ISO 974, ASTM D 746

Application

Determination of the temperature at which plastics, which are not rigid at normal ambient temperature, exhibit brittle failure under specified impact conditions

Features

The machine consists of two components: The drop tower and the cooling unit.
Temperature is set directly on the front-panel of the cooling unit. The unit works with a continuous running, ozone friendly compressor and an electrical heater, which controls the temperature.
The input module holding the sample fixture is equipped with a floating guard and is inserted into the cooling bath. Via mechanical trigger the impactor is released to free fall accelerating to a drop speed of 2 m/s. The drop mass of 5 kg and thus energy of about 10 Joules assures that the drop speed will remain constant throughout the impact process.

Technical Data

Drop Height	220 mm
Drop Speed	2 m/s
Sample Holder	exchangeable
Temperature	-80°C to RT
Cooling Time	approx. 120 min (+20°C to – 80°C)
Temp. Set Accuracy	0.1 K
Temp. Control Accuracy	+/- 0.05 K
Cooling Media	e.g. Methanol
Capacity	14 l
Coolant	CFK/ HCFK free

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Dimensions and Connection

Dimension (HxWxD)	approx. 1470 x 460 x 810 mm
Weight	approx. 120 kg
Mains	230 V / 50 Hz (optional: 230 V / 60 Hz or 115 V / 60 Hz)
Power	2.800 Watt

Interfaces	RS232 for remote control of cooler
Air	n.a.
Cooling	n.a.

Accessories

Incl.	Item no.	Description
-	24-901-001	Clamping Fixture TYPE A (ASTM D 746, ISO 821)
-	24-901-002	Clamping Fixture TYPE B (ASTM D 746, ISO 974)
1	24-901-101	Lid to close cooling bath
1	24-901-102	Input Module for Clamping Fixture
1	24-901-103	Floating Guard for 24-901-102

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