

Competence creates Confidence.



• Model no. 1680

CONE TESTER

ISO 13480



For the preparation of a sample for determining resistance to slow crack growth. The sample is a plastic pipe made of polyethylene with a wall thickness of max. 5 mm. A cone is driven into the sample using the tester.

This causes a constant tension. A notch is then added at the end of the sample. The actual measurement of crack propagation is carried out 80°C in a tank (not included in the scope of delivery). The crack propagation growth over time is documented as a measurement result.

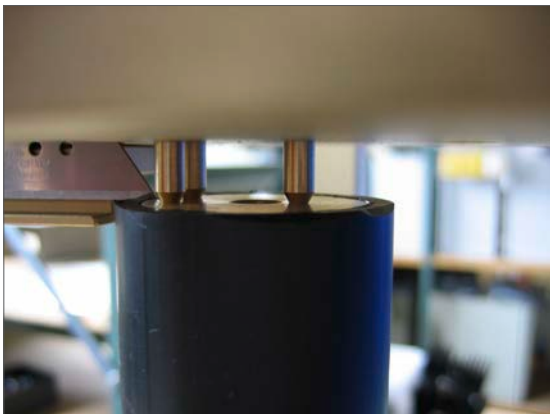
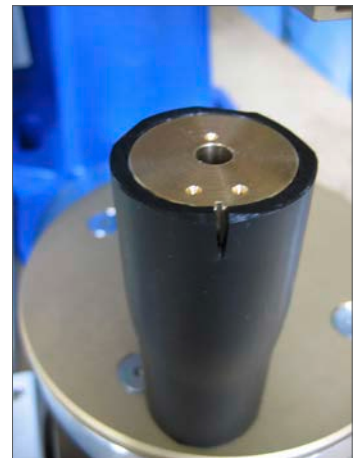
Precisely notched

The ISO 13480 standard specifies a cone test method for evaluating the resistance of polyethylene pipes to slow crack growth. This test method, which is useful for pipes with a smaller diameter in particular, measures the speed of crack propagation in a notched tubular ring which is exposed to constant ring expansion and is immersed in a surface-active solution at an increased temperature.

Test setup

The pressing aid is used to press the cone out of the sample. The pressing aid is shaped like a cup. The bottom part is made of plastic.

The sample with the cone is placed in the suitable pressing aid for pressing out and pressed out with the plastic rod.



Standard features

- A cone and a press to deform the pipe.
- A notching device to cut an even notch into the tubular ring.
- CE conformity

Options

- A thermostatically regulated test tank for maintaining the desired temperature.
- Cone pressing aid

Design of CONE TESTER

V1680-0003

Sample		Type
Diameter	mm	Max. 75
Length	mm	Max. 150
Wall thickness	mm	Max. 5
Tester		
Speed	mm/min	Slow: approx. 10 mm/min, fast: approx. 100 mm/min
Cone (made of metal)	mm	25 x 3.0 32 x 3.0 40 x 3.7 50 x 4.6 Further sizes on request
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity	%	Max. 70 non-condensing
Noise emission during operation	dB(A)	< 70
Width x depth x height	mm	620 x 520 x 820
Weight	kg	70
Voltage data		230 V, 50/60 Hz special voltage on request