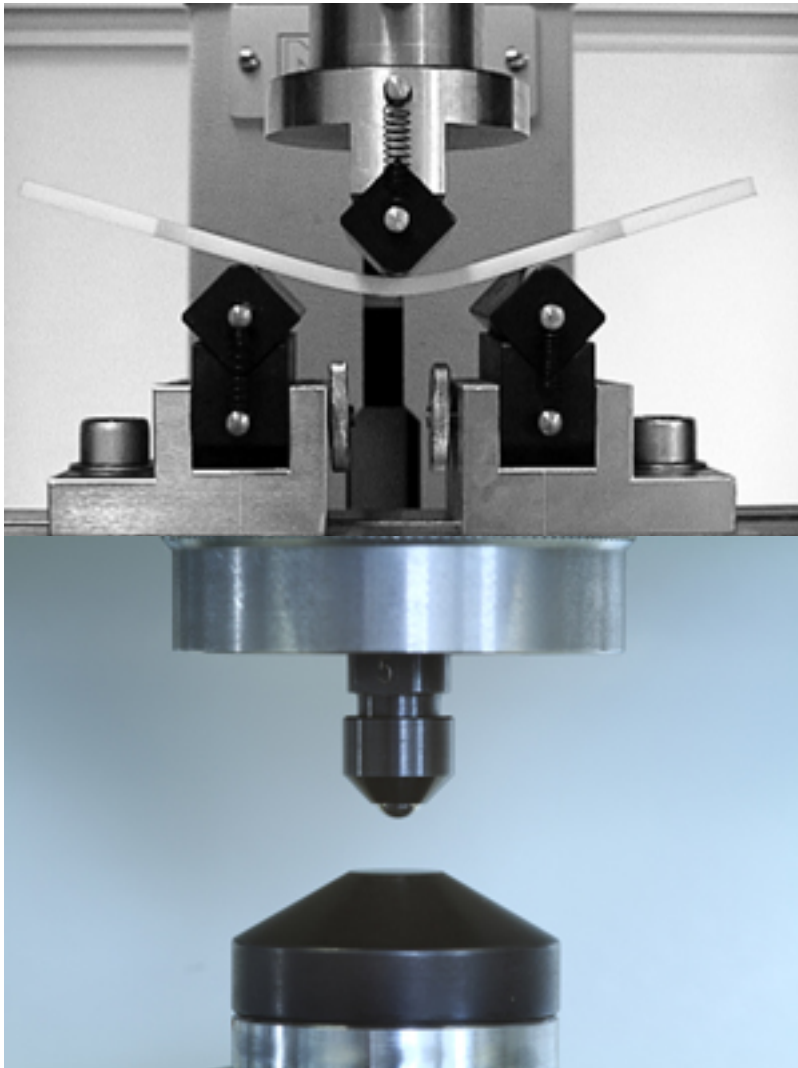


Here you can find a choice of our technical equipment for testing bio-plastics.

Contact us. We will be very happy to help you.



Equipment

Data

Test options

Universal testing machine

TIRA test 28100

Tensile-/tension and bending tests for standard rods and components.

Tensile-/tension tests from 100N to 100kN

Determination of stiffness (Springs, bearings etc.)

Test velocity: 400mm/min

State-of-the-art interpretation software.

Universal testing machine

TIRAtest

Tensile-/tension and bending tests for standard rods and components.State-of-the-art interpretation soft

Tensile-/tension tests from 100N to 5kN

Measurement of hardness

Measurement of hardness

IfR is capable of making testing panels.

Shore A, D

Indentation hardness

Dart drop testing machine

Coesfeld

Perforation test: Standard 4,4m/s - 10m/s

Temperature range -30 bis 80 °C

Pendulum impact tester

Zwick

Impact strength

Charpy-Pendel (1-50) J

Melt flow testing machine

Ceas Melt Flow Junior

MFR, MVR

Change of viscosity

3D-deformation test system

GOM Aramis

Deformation analysis of various geometric forms.

State-of-the-art interpretation software.

Humidity tests

Brabender Aquatrac

Humidity determination of granules

Test range: 0 - 8%

HDT-/Vicat

Ceast

Determination of softening temperature

Density test

Lfit- und Pycnometer procedure

Determination of density of granules and small parts.

Fibreglass content/loss on ignition

Carbolite, Nabertherm

Loss on ignition, ash content, fibreglass content

Fogging-Test

Thermo Scientific HAAKE P2-FOG

Determination of fogging behaviour of car interior materials.

flamming box

Wazau flamming box

flammability, flame front velocity

CNC-milling machine

Coesfeld

Make of testing panels.

Hot and cold chamber

Weiß, Binder

Aging test

Climate chambers

Binder, CTS

Climate change tests

-30°C to 300°C

to 2 m

3

SC

Netzsch DSC 204 Phoenix

Cristallisation, Re-Cristallisation, melting temperatures,

Nitrogen- and oxygen scavenging

Glass transition, OIT, connection reactions, enthalpy change

TGA

Perkin Elmer TGA 7a

Temperature- and time related changes of mass

Nitrogen- and oxygen scavenging

Rheometer

Haake Rheostress 600

Tests with oscillation and rotation

Temperature range: -20 to 400 °C

Torque: 0,1 μ Nm - 200 mNm

Measuring systems: cone/panel, panel/panel

Rheometer

Haake VST 550

Rotation tests