

The NEXT STEP[®] in Dispersion Analysis



Adhesion Analyser LUMiFrac®

Evaluate the strength of your composite materials

Adhesive & bonding strengths • Coating & surface properties

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| | Adhesion Analyser | | |
| UMiFrac® | | | |
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Brand-new Measurement Principle

Measure 8 samples simultaneously.



- Detachment of the test stamp (moment of rupture) is automatically detected.
- The breaking load and tensile strength are calculated by SEPView[®].

Use & benefits

- Easy preparation of your test specimen.
- > Up to 8 samples are analysed under identical conditions and with high reproducibility.
- No sample clamping at all simply plug-in.
- ▶ Variable testing speed and adjustable loading progression.
- Versatile testing frequencies.
- Cost-saving multi-use of test stamps.
- Safety: capsuled housing.
- In accordance with ISO 4624 and DIN EN 15870.



SEPView[®]

your window to dispersion analysis



- Windows 7 based with Ribbon User Interface.
- Plug & play, pack & go.
- Simultaneous analysis for up to 24 samples in real-time.
- Full SOP concept.
 (Creation, capture, data analysis)
- Allows to save fracture pattern.
- Windows Explorer based data management.
- Comprehensive database security and full audit-log.
- Individual user customization.
- Complies with 21 CFR Part 11.

Applications

Standardised short time measurements for QC.

Testing of tensile strength of bonded joints:

- Cyanoacrylates
- Epoxy adhesives
- Polyurethanes
- ...

Determination of adhesive strength of coatings:

- Anti-corrosion coatings
- Decorative coatings
- Metallized polymers
- Optical coatings
- ...

Long-term fatigue testing:

- Alternating loads
- Different temperatures



Specifications

Conformity

Rotor speed / Load range Tensile strength Measurement time

100 – 13.000 rpm; 1 N – 6.5 kN up to 80 MPa 1 min up to 99 h, depending on task and objective ISO 4624; DIN EN 15870

Samples Maximal sample dimension Adhesive area Test stamp material Up to 8 simultaneously 30 x 30 x >1 mm³ diameter 5 mm, 7 mm, 10 mm aluminium, copper, tungsten

Dimensions (W x H x D) Weight Temperature control Data interface Power supply Power consumption 380 x 640 x 296 mm³ 56 kg, desktop -11°C to + 40°C USB 100 V / 120 V / 230 V, 50/60 Hz 1050 W



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in accordance with DIN EN 15870

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