

Laboratory and Small-Scale Production PLASMA-SYSTEM

S U R F A C E T E C H N O L O G Y

FEMTO



Applications:

- **Cleaning of Surfaces**
e.g. before bonding, soldering or gluing
- **Activation of Surfaces**
e. g. before printing, varnishing or gluing
- **Etching of Surfaces**
e.g. before microstructuring of silicon or etching of PTFE
- **Deposition of Surfaces**
e.g. deposition of hydrophobic layers

Users:

- Small-Scale Production
- Analysis
- Medical Technology
- Sterilization
- Research and Development
- Archaeology
- Textiles

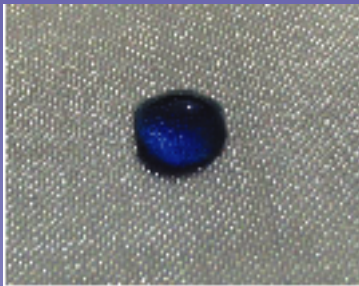
Diener electronic

Plasma-Surface-Technology

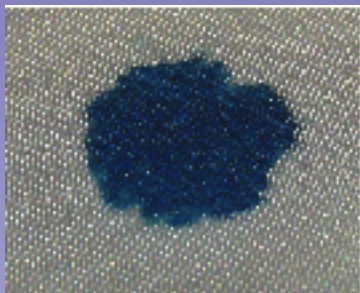
PLASMA SYSTEM FEMTO

SURFACE TECHNOLOGY

Modification of Surfaces:



Without treatment:
No wetting of surface



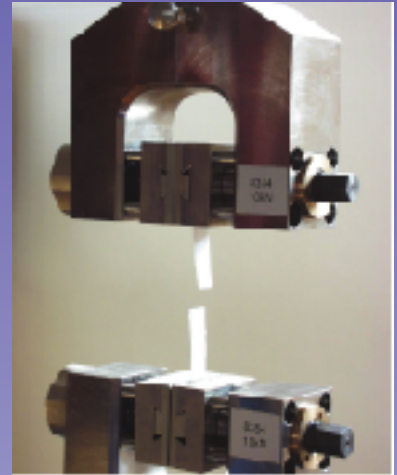
Hydrophilic through Plasma treatment:
proper wetting of surface



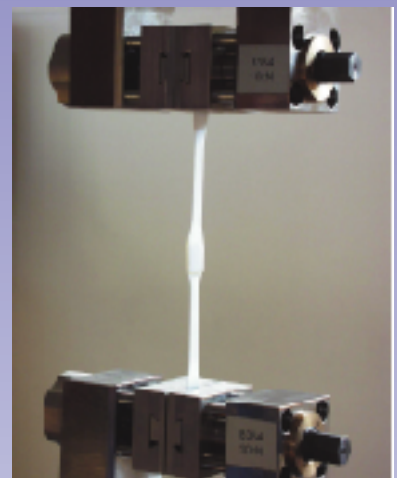
Hydrophobic through Plasma treatment:
Surface rejects dirt and moisture

Plasma Etching:

Puller experiment on glued PTFE-strips



Without treatment:
breakage at little stress



With Plasma etching:
The glued strips hold

Technical Data:

- 40 kHz Plasma Generator
- Continuous Power Control
- Manual Operation
- Dimension: Ø 100 mm, Depth 270 mm
- 1 Process Gas

Diener electronic

Plasma-Surface-Technology
HF-Generators

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