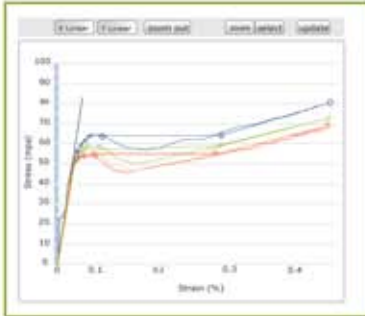
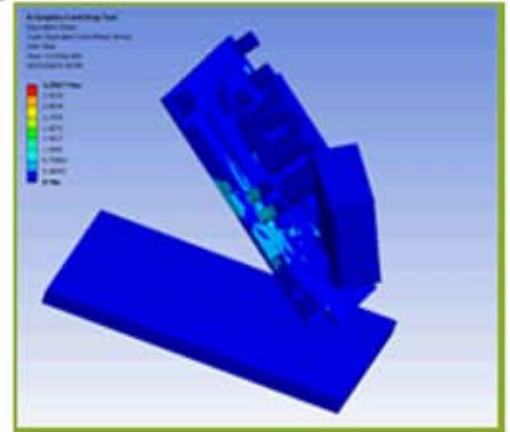


Material Database for ANSYS 13.0

The database includes linear properties, stress-strain curves with temperature, fatigue, visco-elastic, and rate-dependent properties of metals, plastics, foams, rubber, wood, and many other materials. Use the CAE Modeler software to convert data into common ANSYS Mechanical, ANSYS EXPLICIT STR, LS-DYNA material models. The Database is integrated within Workbench 13.



You can also create your own Material Database and connect it to ANSYS Workbench.



Drop test photo courtesy of ANSYS

Database Contains:

DatapointLabs non-linear CAE materials database

- Hyperelastic properties of 8 rubbers, elastomers, and silicones
- Temperature-dependent stress-strain data on 8 common plastics
- High strain-rate stress-strain data on 3 foams
- 37 C in saline stress-strain and visco-elastic data on UHMWPE for in-vivo biomedical applications
- High strain-rate tensile data on polycarbonate and polypropylene plastics

IDAC materials database

- IDAC offers two material properties databases; a 250 basic materials one and a larger 400 materials database which includes 254 non-linear material data curves such as fatigue, non-linear stress-strain, temperature-dependent Young's modulus, etc.

NIST electronic database for design properties

- Modulus, Poisson's Ratio, thermal expansion, and thermal properties of silicon, ceramics, glass, metals and solders for chip making and electronic applications

Ticona, Bayer, Lanxess and Dow material databases

- Linear and non-linear properties of plastics

Price \$485

For more information contact: info@matereality.com

TrueDigital is a paperless (non-pdf) digital capture of 'contextually complete' data, including methodology, source, parameters, pictures and observation. TrueDigital makes data traceable, searchable and application-ready.