

## Materials Data Library for Analysts

The I-DEAS® Material Data Catalog - MDLA catalog consists of more than 450 records covering thermoplastics, thermosets, elastomers, ceramics, composites, metals, wood, and glass. The MDLA is developed using the following data sources:

- Manufacturer's technical manuals and data sheets.
- Direct contact with manufacturer's technical personnel.
- In-house synthesis/interpolation techniques.
- Recognized textbook sources.
- Trade magazines.

## Properties

I-DEAS Material Data Catalog - MDLA includes mechanical property data commonly needed for engineering analysis including:

- Young's Modulus
- Shear Modulus
- Poisson's Ratio
- Yield Strength
- Ultimate Strength
- Elongation
- Density
- Coefficient of Thermal Expansion
- Thermal Conductivity
- Specific Heat

Nominal properties and property ranges are provided for all materials. Temperature-dependent data, when available, is provided. References to specific manufacturers are included.

## Prerequisite

- Core Master Modeler
- or-
- I-DEAS Product Design Package
- or-
- I-DEAS Artisan™ Package
- or-
- Core Simulation

## For More Information

For more information, contact your local SDRC representative or call 1-800-848-7372.

The image displays two screenshots of the I-DEAS Material Data Catalog (MDLA) interface. Each screenshot shows a table with columns for 'FEA Properties', 'Materials Data Library for Analysts', and 'MDLA'. The first screenshot shows data for 'ALUMINUM 6061' and 'ALUMINUM 7075'. The second screenshot shows data for 'ALUMINUM 6061-T6' and 'ALUMINUM 7075-T6'. The tables list various mechanical properties such as Young's Modulus, Poisson's Ratio, Yield Strength, Ultimate Strength, Elongation, Density, Coefficient of Thermal Expansion, Thermal Conductivity, and Specific Heat. A 'Notes' section at the bottom of each table provides additional information and references.

MDLA