



# Material Data Center

**Material Data Center** is an internet platform for Engineering Plastics. Besides material databases it contains an application database and a toolbox with several calculation programs, as well as interfaces to different CAE systems. All modules have been developed to help designers of the plastics industry with material decisions.

Access to Material Data Center is available at:

[www.materialdatacenter.com](http://www.materialdatacenter.com)

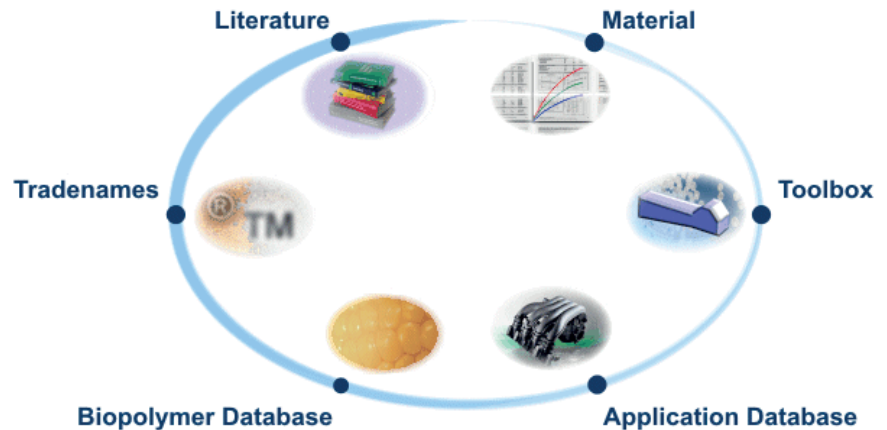
Material Data Center includes technical data of all plastics in the international market. Data is collected from the producers directly. This process involves a quality check. Data that is apparently wrong will be omitted. Also plastic grades that are no longer on the market will be deleted.

## ISO and ASTM Data

The system includes data in both of the leading standardization systems, ISO and ASTM. In order to avoid wrong interpretations and comparisons, the system makes sure that data from different sources will not be compared directly.

## CAMPUS® Data

Material Data Center contains the entire stock of CAMPUS data. Due to extremely strict rules for material testing and reporting, these data are of high-quality. Therefore, this database is the only manufacturer spanning data collection which exclusively uses truly comparable data.



As it offers a wide range of design data (stress-strain diagrams, creep curves, etc.) the engineer will find a unique source of valuable information in Material Data Center.

## Functionality

The powerful functionality of Material Data Center is adapted to the specific use in the plastics industry. It is possible to search and compare materials by any combination of properties, also between different producers. Tables can be defined and printed, a curve overlay is available and datasheets in 10 different languages.

## Application Database

Material Data Center also includes an application database in which numerous application examples are documented. Here, the user has the option to search for name, industrial sector and used material. An interface offers direct linking from an application to the data sheet of the used material and vice versa.

## Toolbox

Another component of Material Data Center is a so-called Toolbox. It allows calculations based on the original data. At present, the toolbox offers calculations of model parameters for several applications (viscosity models, pvT models and creep curves). The toolbox also allows certain calculations such as cooling time and flow length calculations for injection molding, as well as calculations of several simple mechanical problems. These tools enable the designer to evaluate important material related influences early in the design process.

For the final dimensioning/calculation extensions are available to forward data to different CAE systems via export interfaces.

The price for the annual access to the standard version of Material Data Center is 390,- Euro.

A free demo version is available at:

[www.materialdatacenter.com](http://www.materialdatacenter.com)

CAMPUS® is a registered trademark of CWFG mbH, Frankfurt am Main, 2018