

Comprehensive Internet Material Database

Due to the positive resonance in the plastics industry we added a set of modules to our internet plastics database **MCBase-i** and expanded it to a comprehensive, modular structured material information system, which satisfies both the requirements of plastic producers and end users (processors as well as designers).

MCBase-i is a self-sufficient data management system, that allows not only reading access to all relevant material data, but also interactive data administration (input and editing of data). Beyond that, the system has an administration tool for the assignment of user rights, the setup of properties, etc.

All **data formats** relevant for materials can be processed: single-point values, so called multi-point data (curves), parameters for material models, tables, graphs, etc. In the case of the material models the system cannot only provide individual diagrams based on the parameters, but we also have extensive software for the **fitting** of raw data according to different mathematical models.

MCBase-i has been designed for plastics, but can easily be adapted to any other group of materials, first variants for **steel and aluminum** have already been realized successfully.

A special characteristic of our software is the multilingualism, which is important especially for the installation as international product information system or for **multinational** customers.

A special option for internet information systems is the possibility of arranging data sheets interactively and converting them into pdf format. In this way, the graphic layout restrictions of the internet can be overcome and printable documents can be generated.

An important range of application of our software is the support of



DSM Material Selector

designers. The software can be equipped with data interfaces for CAE systems. This topic gains in importance lately by the increasing networking of all product development steps. Since M-Base has already dealt with this for over 10 years, we have a large headstart in know-how.

References

Individual variants of MCBase-i were already installed at numerous customers in the plastics industry and in the automobile industry. On our homepage www.m-base.de we always present a current list of reference projects.

Some of these systems are used as product information system by our customers and are very simply accessible in the internet. Examples of plastic producers, who offer our software in the internet are: BASF, Ticona and Biesterfeld. Further ones will follow soon. The newest variant is a material information system by **DSM Engineering Plastics** under www.dsmep.com.

This information system was developed on the basis of the M-Base Material Data Center, which was already mentioned on page 1. At this, the

advantage is that we cannot only offer the individual adjustment of the software, but also the complete web hosting in cooperation with qualified providers.

These individual variants of the Material Data Centers are very **cost effective** for plastic producers and offer the advantage of uniformity for the end user; it is not necessary to get familiar with a new user interface for each information system for the final user.

The new information system by DSM approaches the global market and is multilingual. Mentionable is that the M-Base technology can also handle the **Asian characters** (Japanese, Chinese, Korean).

Short cut to our references:

- www.CAMPUSplastics.com
- www.materialdatacenter.com
- www.ticona.de
- www.basf.com
- www.dsmep.com
- www.biesterfeld.de