

Workgroup Material DatabasePro

Top Use Cases

Material Management Software by Matereality

Populate a Shared Workgroup Material Database

Challenge

- Collect relevant data for the materials you use in *your* product design

Solution

- Property Grid app shows you what data is available to you and where gaps (blank hexagons) exist: material properties, other materials information, CAE material files
- Click a gap to launch collaboration and authoring features to request access, order testing, and load data

Benefits

- Find the right material for your design application, faster

The image displays three overlapping screenshots from the Property Grid application. The background screenshot shows the 'My Database > Properties' view with a grid of material properties. A legend indicates that yellow circles represent 'unpublished data' and blue circles represent 'locked data'. A specific material, '1100-H12', is highlighted with a yellow circle, indicating a data gap. Overlaid on the top right is a dialog box titled 'McMaster Carr ABS PN 8586K161 > Hyperelastic Properties'. It contains a 'Request data from a Supplier or Colleague' form with fields for 'Email' and 'Subject' (pre-filled with 'Request for Property Data - McMaster Carr ABS PN 8586K161'). A 'Message' field contains 'Material: McMaster Carr ABS PN 8586K161' and 'Property Data: Hyperelastic Properties Details:'. Buttons for 'Send Email' and 'Test Catalog' are visible. Overlaid on the bottom center is a 'Data Loading Wizard' dialog box for '1100-H12 > Unknown Property'. It shows 'Project Information' and a 'Select Property' dropdown menu set to 'Tensile Properties'. A 'Next' button is at the bottom.

Create CAE Material Files for Supported Solvers

Challenge

- Find the right material properties, formatted and ready to use in your CAE analysis

Solution

- Matereality CAE Modeler software automates the creation of CAE Material files for supported solvers, using the properties in your database
- Save the created files in your CAE Materials library for reference and re-use

Results

- Create CAE-ready material inputs specific to your solver software and analysis goal

