

EPD Data Format – Details

About this document

This document provides additional information for software developers who want to integrate support for the ÖKOBAUDAT's EPD data format and/or data exchange to or from the ÖKOBAUDAT into their software applications.

DIN EN 15804 - Modules

The following modules according to DIN EN 15804 are supported:

A1
A2
A3
A1-A3
A4
A5
B1
B2
B3
B4
B5
B6
B7
C1
C2
C3
C4
D

These values are binding for use in the @module attribute.

Physical properties

Physical product or material properties can be modelled by embedding MatML (<http://www.matml.org/>) markup as shown in the examples.

The following physical properties must be supported (property name like „grammage“ and „gross density“ are binding):

grammage (de: Flächengewicht) in kg/m²

```
<MatML_Doc>
  <Material>
    <BulkDetails>
      <Name> (Material) </Name>
      <PropertyData property="pr1">
        <Data format="float"> (Value) </Data>
      </PropertyData>
    </BulkDetails>
  </Material>
```

```

<Metadata>
  <PropertyDetails id="pr1">
    <Name>grammage</Name>
    <Units name="kg/m^2" description="kilograms per square metre">
      <Unit>
        <Name>kg</Name>
      </Unit>
      <Unit power="-2">
        <Name>m</Name>
      </Unit>
    </Units>
  </PropertyDetails>
</Metadata>
</MatML_Doc>

```

(*Material*) can be any text and (*Value*) the decimal value with a dot (.) as decimal separator (e.g. 42.1).

gross density (de: Rohdichte) in kg/m³

```

<MatML_Doc>
  <Material>
    <BulkDetails>
      <Name>(Material)</Name>
      <PropertyData property="pr2">
        <Data format="float">(Value)</Data>
      </PropertyData>
    </BulkDetails>
  </Material>
  <Metadata>
    <PropertyDetails id="pr2">
      <Name>gross density</Name>
      <Units name="kg/m^3" description="kilograms per cubic metre">
        <Unit>
          <Name>kg</Name>
        </Unit>
        <Unit power="-3">
          <Name>m</Name>
        </Unit>
      </Units>
    </PropertyDetails>
  </Metadata>
</MatML_Doc>

```

The following property name identifiers are currently supported for declaring non-scaling material properties (there are single spaces between multiple words):

property identifier	unit	description
<i>bulk density</i>	kg/m ³	kilograms per cubic metre
<i>grammage</i>	kg/m ²	kilograms per square metre
<i>gross density</i>	kg/m ³	kilograms per cubic metre
<i>layer thickness</i>	m	metres
<i>productiveness</i>	m ²	square metres
<i>linear density</i>	kg/m	kilograms per metre
<i>conversion factor to 1 kg</i>		