BREMAG Bonded NdFeB Standard Range

BREMAG Bonded NdFeB magnets are either compression or injection moulded to net shape and due to the high tolerances achieved, require no further machining. This data sheet covers our standard range of NdFeB Bonded magnets that are commonly used in all industries. All grades are produced to ISO9001 and ISO14001 Quality Control Standards and Certificates of Conformity, MSDS and PPAP's can be supplied on request.

BREMAG Standard grades – commonly used globally. Typical Values only

<table>
<thead>
<tr>
<th>Material</th>
<th>Br (mT)</th>
<th>Hc (Hcb) (ka/m)</th>
<th>Hci (Hcj) (ka/m)</th>
<th>BHmax (kJ/m³)</th>
<th>MsOe (MGOe)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B10N</td>
<td>680</td>
<td>6800</td>
<td>430</td>
<td>745</td>
<td>9250</td>
</tr>
<tr>
<td>SB90</td>
<td>612</td>
<td>6120</td>
<td>410</td>
<td>745</td>
<td>9250</td>
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<tr>
<td>SB80</td>
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<td>370</td>
<td>745</td>
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<tr>
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<td>330</td>
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<tr>
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<tr>
<td>SB50</td>
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<td>3400</td>
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<tr>
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<td>272</td>
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<tr>
<td>SB30</td>
<td>204</td>
<td>2040</td>
<td>170</td>
<td>745</td>
<td>9250</td>
</tr>
</tbody>
</table>

Demagnetisation curves represent typical properties that will vary due to product shape, size and density. Please contact the factory for information.

Physical Properties

Bunting Magnetics Europe
Tel: +44 (0)1442 875081 Fax: +44 (0)1442 875009
Email: sales@buntingeurope.com
www.buntingeurope.com

E-Magnets UK
Tel: +44 (0)114 2762264 Fax: +44 (0)114 2752759
Email: sales@e-magnetsuk.com
www.e-magnetsuk.com

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**Coatings**

Plastic Bonded Magnets are generally supplied uncoated as the plastic binder protects the NdFeB alloy from corrosion. However, coatings can be applied when necessary such as Black Epoxy Spray or Parylene. Please contact our sales staff for further information.

**General Information**

Plastic Bonded Magnets are either compression or injection moulded to net shape and due to the high tolerances achieved, require no further machining. Plastic Bonded magnets use NdFeB magnetic powder within a non-magnetic binder (usually a rubber or plastic). Being thermos-elastomers, the binders can be a limiting factor on the suitability for some applications, as they will soften with heat.

The process of manufacture is best suited for high or very high volumes due to the relatively high tooling charges, but is also very cost effective, as no magnet material is wasted.

**Magnetisation**

Plastic Bonded magnets are isotropic, and can therefore be magnetised afterwards in any direction. This makes them ideally suited for multipole magnetisation, either before or after assembly. Magnetising patterns are limited only by whether a magnetising coil fixture can be produced to give the required magnetising pattern.

For standard two pole magnets, a letter “A” may be used to denote the direction of magnetisation (DoM). E.g. od5mm x 30mmA is an axially magnetised rod magnet. If an arrow or multiple arrows are present on the drawing, the arrows show the direction of magnetisation together with N or S letters to define the North and South faces.

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**Examples of Bonded Magnets**

- **Diametric Magnetisation**
- **Multipole Radial Magnetisation on OD**
- **Multipole Axial Magnetisation on end face**