



### MATERIAL DATA

Magnetic values according to DIN IEC 60404-8-1

Energy product (B·H) <sub>max.</sub>	typ.	kJ/m <sup>3</sup>	18
	min.	kJ/m <sup>3</sup>	17
Remanence B <sub>r</sub>	typ.	mT	305
	min.	mT	295
Revers. temp. coeff. of B <sub>r</sub>	approx.	%/K	-0.19 <sup>2)</sup>
Coercivity H <sub>c</sub>	H <sub>cB</sub> typ.	kA/m	190
	H <sub>cB</sub> min.	kA/m	180
	H <sub>cI</sub> typ.	kA/m	200
	H <sub>cI</sub> min.	kA/m	185
Revers. temp. coeff. of H <sub>cI</sub>	approx.	%/K	+0.2 <sup>2)</sup>
Relative permanent permeability μ <sub>rec.</sub>	approx.		1,05
Curie temperature	approx.	°C	450
Magnetising field strength	min.	kA/m	800

Operating temperature

Matrix binder PA 12	max.	°C	140 <sup>1)</sup>
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Mechanical values

Density	approx.	g/cm <sup>3</sup>	3.9
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<sup>1)</sup> The max. operation temperature depends on the exposure time, the magnet dimensions as well as the specific application.  
 With PA high temperatures have an extra negative impact on the mechanical characteristics with increasing duration of exposure. Please get in touch with our applications engineers for any further info.

<sup>2)</sup> In the temperature range from 20 °C to 100 °C.

All values indicated were determined on a sample (10 mm x 10 mm x 5 mm) according to IEC 60404-5.

For unfavourable geometries, especially for thin magnets, the excessively fast solidification process can cause the material data to be less than optimal.