



MATERIAL DATA

Magnetic values according to DIN IEC 60404-8-1

Energy product (B·H) _{max.}	typ.	kJ/m ³	3.0
	min.	kJ/m ³	2.9
Remanence B _r	typ.	mT	130
	min.	mT	125
Revers. temp. coeff. of B _r	approx.	%/K	-0.19
Coercivity H _c	H _{cb} typ.	kA/m	85
	H _{cb} min.	kA/m	80
	H _{cj} typ.	kA/m	210
	H _{cj} min.	kA/m	190
Revers. temp. coeff. of H _{cj}	approx.	%/K	+0.3
Relative permanent permeability μ _{rec.}	approx.		1.05
Curie temperature	approx.	°C	450
Magnetising field strength	min.	kA/m	>800

Max. operating temperature

Matrix binder PA 6 ²⁾	approx.	°C	120-160 ¹⁾
Matrix binder PA 12	approx.	°C	120-140 ¹⁾
Matrix binder PPS ³⁾⁴⁾	approx.	°C	220 ¹⁾

Mechanical values

Density	approx.	g/cm ³	3.5
---------	---------	-------------------	-----

- 1) The max. operating temperature depends on the magnet dimension and the specific application. Please contact our application engineering for more information.
- 2) For binder PA 6 the magnetic values for H_{cb} min./H_{cb} typ. are reduced by -10 kA/m each and H_{cj} min./H_{cj} typ. by -30 kA/m each.
- 3) For magnets with PPS as binder, the chemical resistance to oils, grease, motor oils etc. is significantly better than for PA-bonded magnets; however this has to be checked in individual cases.
- 4) On request.

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.