



MATERIAL DATA

Magnetic values as in DIN IEC 60404-8-1

Energy product (B·H) _{max.}	typ.	kJ/m ³	14.5
	min.	kJ/m ³	14.0
Remanence B _r	typ.	mT	275
	min.	mT	265
revers. Temp. coeff. of B _r	approx.	%/K	-0.19
Coercivity H _c	H _{cb} typ.	kA/m	190
	H _{cb} min.	kA/m	180
	H _{cj} typ.	kA/m	230
	H _{cj} min.	kA/m	220
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	3.6
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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) following IEC 60404-5.

For unfavourable geometries, especially for thin magnets or tight pole pitches, the excessively fast solidification process or insufficient orienting field strength can cause the material data to be less than optimal.