



Temperature in [°C]: **20.0** **-40.0** **100.0** **125.0** **180.0**

magnetic properties

Remanence 20°C	Br min	0.272	T	2.7	kG
	Br nom	0.279	T	2.8	kG
Coercivity 20°C	HcB min	150	kA/m	1.9	kOe
	HcB nom	175	kA/m	2.2	kOe
Intrinsic Coercivity 20°C	HcJ min	165	kA/m	2.1	kOe
	HcJ nom	200	kA/m	2.5	kOe
Maximum Energy Product 20°C	BH max, min	14.2	kJ/m ³	1.8	MGOe
	BH max, nom	15.1	kJ/m ³	1.9	MGOe
Reversible Temperature Coefficient ¹⁾	α Br nom	-0.185	%/°C		
	β HcJ nom	0.170	%/°C		

material properties (typical values)

Max. Operating Temperature ²⁾	T max	180	°C		
Density	ρ	3.73	g/cm ³		
Permeability 20°C	μr	1.03			
Flexural Strength		ca.99	Mpa		

1) The shown temperature coefficients are nominal reference values only . They can vary for different temperatures and don't need to be linear.
 2) The maximum operating temperature is depending on the magnet shape, size and on the specific application.

Note: The above plotted graphs are idealized and represent theoretical values of the material. Shown are curves according nominal values based on uncoated material samples according to IEC 60404-5. Material and magnetic data represent typical data that may vary due to product shape, size and coating. Please contact Bomatec regarding specific requirements for your application.