



Temperature in [°C]: **20.0** **80.0** **100.0** **125.0** **180.0**

magnetic properties

Remanence 20°C	Br min	0.515	T	5.2	kG
	Br nom	0.538	T	5.4	kG
Coercivity 20°C	HcB min	330	kA/m	4.1	kOe
	HcB nom	358	kA/m	4.5	kOe
Intrinsic Coercivity 20°C	HcJ min	800	kA/m	10.1	kOe
	HcJ nom	898	kA/m	11.3	kOe
Maximum Energy Product 20°C	BH max, min	45	kJ/m ³	5.7	MGOe
	BH max, nom	48.5	kJ/m ³	6.1	MGOe
Reversible Temperature Coefficient ¹⁾	α Br nom	-0.130	%/°C		
	β HcJ nom	-0.350	%/°C		

material properties (typical values)

Max. Operating Temperature ²⁾	T max	180	°C		
Density	ρ	5.18	g/cm ³		
Permeability 20°C	μr	1.1			
Flexural Strength		ca.101	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.