



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

magnetic properties					
Remanence 20°C	Br min	0.515	T	5.2	kG
	Br nom	0.545	T	5.5	kG
Coercivity 20°C	HcB min	318	kA/m	4.0	kOe
	HcB nom	358	kA/m	4.5	kOe
Intrinsic Coercivity 20°C	HcJ min	620	kA/m	7.8	kOe
	HcJ nom	710	kA/m	8.9	kOe
Maximum Energy Product 20°C	BH max, min	45.4	kJ/m ³	5.7	MGOe
	BH max, nom	49.35	kJ/m ³	6.2	MGOe
Reversible Temperature Coefficient ¹⁾	α Br nom	-0.110	%/°C		
	β HcJ nom	-0.350	%/°C		

material properties (typical values)					
Max. Operating Temperature ²⁾	T max	125	°C		
Density	ρ	5.05	g/cm ³		
Permeability 20°C	μr	1.15			
Flexural Strength		ca.93	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.