



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

magnetic properties					
Remanence 20°C	Br min	0.205	T	2.1	kG
	Br nom	0.215	T	2.2	kG
Coercivity 20°C	HcB min	153	kA/m	1.9	kOe
	HcB nom	169	kA/m	2.1	kOe
Intrinsic Coercivity 20°C	HcJ min	247	kA/m	3.1	kOe
	HcJ nom	271	kA/m	3.4	kOe
Maximum Energy Product 20°C	BH max, min	8.2	kJ/m ³	1.0	MGOe
	BH max, nom	9	kJ/m ³	1.1	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	125	°C		
Density	ρ	2.99	g/cm ³		
Permeability 20°C	μr	1.02			
Flexural Strength		ca. 128	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.