



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

magnetic properties					
Remanence 20°C	Br min	0.400	T	4.0	kG
	Br nom	0.437	T	4.4	kG
Coercivity 20°C	HcB min	250	kA/m	3.1	kOe
	HcB nom	302	kA/m	3.8	kOe
Intrinsic Coercivity 20°C	HcJ min	620	kA/m	7.8	kOe
	HcJ nom	756	kA/m	9.5	kOe
Maximum Energy Product 20°C	BH max, min		kJ/m <sup>3</sup>		MGOe
	BH max, nom	33	kJ/m <sup>3</sup>	4.1	MGOe
Reversible Temperature Coefficient <sup>1)</sup>	α Br nom	-0.120	%/°C		
	β HcJ nom	-0.400	%/°C		

material properties (typical values)					
Max. Operating Temperature <sup>2)</sup>	T max	125	°C		
Density	ρ	4.5	g/cm <sup>3</sup>		
Permeability 20°C	μr	1.15			
Flexural Strength		ca. 123	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.