



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

**magnetic properties**

Remanence 20°C	Br min	0.706	T	7.1	kG
	Br nom	0.728	T	7.3	kG
Coercivity 20°C	HcB min	421	kA/m	5.3	kOe
	HcB nom	441	kA/m	5.5	kOe
Intrinsic Coercivity 20°C	HcJ min	701	kA/m	8.8	kOe
	HcJ nom	718	kA/m	9.0	kOe
Maximum Energy Product 20°C	BH max, min	77.2	kJ/m <sup>3</sup>	9.7	MGOe
	BH max, nom	81.1	kJ/m <sup>3</sup>	10.2	MGOe
Reversible Temperature Coefficient <sup>1)</sup>	α Br nom	-0.110	%/°C		
	β HcJ nom	-0.400	%/°C		

**material properties (typical values)**

Max. Operating Temperature <sup>2)</sup>	T max	125	°C		
Density	ρ	6	g/cm <sup>3</sup>		
Permeability 20°C	μr	1.16			
Flexural Strength		ca. 56	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.