



Temperature in [°C]:                    **20.0**                    **-40.0**                    **100.0**                    **125.0**                    **180.0**

**magnetic properties**

Remanence 20°C	Br min	0.261	T	2.6	kG
	Br nom	0.268	T	2.7	kG
Coercivity 20°C	HcB min	179	kA/m	2.2	kOe
	HcB nom	195	kA/m	2.5	kOe
Intrinsic Coercivity 20°C	HcJ min	211	kA/m	2.7	kOe
	HcJ nom	236	kA/m	3.0	kOe
Maximum Energy Product 20°C	BH max, min	13.4	kJ/m <sup>3</sup>	1.7	MGOe
	BH max, nom	14.15	kJ/m <sup>3</sup>	1.8	MGOe
Reversible Temperature Coefficient <sup>1)</sup>	α Br nom	-0.185	%/°C		
	β HcJ nom	0.170	%/°C		

**material properties (typical values)**

Max. Operating Temperature <sup>2)</sup>	T max	180	°C		
Density	ρ	3.6	g/cm <sup>3</sup>		
Permeability 20°C	μr	1.02			
Flexural Strength		ca.125	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.