



Temperature in [°C]: **20.0** **80.0** **100.0** **125.0** **180.0**

magnetic properties

Remanence 20°C	Br min	0.540	T	5.4	kG
	Br nom	0.570	T	5.7	kG
Coercivity 20°C	HcB min	340	kA/m	4.3	kOe
	HcB nom	370	kA/m	4.6	kOe
Intrinsic Coercivity 20°C	HcJ min	650	kA/m	8.2	kOe
	HcJ nom	715	kA/m	9.0	kOe
Maximum Energy Product 20°C	BH max, min		kJ/m ³		MGOe
	BH max, nom	55	kJ/m ³	6.9	MGOe
Reversible Temperature Coefficient ¹⁾	α Br nom	-0.130	%/°C		
	β HcJ nom	-0.400	%/°C		

material properties (typical values)

Max. Operating Temperature ²⁾	T max	180	°C		
Density	ρ	5.35	g/cm ³		
Permeability 20°C	μr	1.2			
Flexural Strength		ca. 90	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.