

magnetic properties					
Remanence 20°C	Br min	1.290	Т	12.9	kG
	Br nom	1.330	Т	13.3	kG
Coercitivity 20°C	HcB min	976	kA/m	12.3	kOe
	HcB nom	1018	kA/m	12.8	kOe
Intuinaia Cannaitivity 20°C	HcJ min	1592	kA/m	20.0	kOe

100.0

120.0

150.0

80.0

20.0

Intrinsic Coercitivity 20°C HcJ nom 1595 kA/m 20.0 kOe MG0e BH max, min 318 kJ/m<sup>3</sup> 39.9 Maximum Energy Product 20°C BH max, nom MG0e kJ/m<sup>3</sup> 334 42.0 α Br nom -0.095 ~ -0.115 %/°C Reversible Temperature Coefficient 1) β HcJ nom -0.52 ~ -0.64 %/°C

## material properties (typical values)

Temperature in [°C]:

material properties (typical values)				
Max. Operating Temperature <sup>2)</sup>	T max	150	°C	
Density	ρ	7.55	g/cm <sup>3</sup>	
Permeability 20°C	μr	1.05		
Vickers Hardness		500 - 600	HV	
Modulus of Elasticity	E	150 - 200	kN/mm <sup>2</sup>	
Copressive Strength		1000 - 1100	N/mm <sup>2</sup>	
Flexural Strength		250	N/mm <sup>2</sup>	
Expansion Coefficient		-	10 <sup>-6</sup> /K	
Expansion Coefficient in direction of	上	-3 - 0	10 <sup>-6</sup> /K	
anisotropy	//	4 - 9	10 <sup>-6</sup> /K	
Specific Electric Resistance	pel	1.2 - 1.6	μΩ <sup>·</sup> m	
Specific Heat Capacity	С	440	J/(kg <sup>·</sup> K)	
Thermal Conductivity	λ	8.0 - 10.0	W/m <sup>·</sup> K	

<sup>1)</sup> The shown temperature coefficients are nominal reference values only . They can vary for different temperatures and don't need to be linear.

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.

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<sup>2)</sup> The maximum operating temperature is depending on the magnet shape, size and on the specific application.