



magnetic properties					
Remanence 20°C	Br min	1.390	Т	13.9	kG
	Br nom	1.430	Т	14.3	kG
Coercitivity 20°C	HcB min	1058	kA/m	13.3	kOe
	HcB nom	1089	kA/m	13.7	kOe
Intrinsic Coercitivity 20°C	HcJ min	1592	kA/m	20.0	kOe
	HcJ nom	1595	kA/m	20.0	kOe
Maximum Energy Product 20°C	BH max, min	377	kJ/m³	47.4	MG0e
	BH max, nom	399	kJ/m³	50.1	MG0e
Reversible Temperature Coefficient 1)	α Br nom	-0.100 ~ -0.120	%/°C		
	β HcJ nom	-0.55 ~ -0.66	%/°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		-3 - 0	10 <sup>-6</sup> /K		
anisotropy	//	4 - 9	10 <sup>-6</sup> /K		
Specific Electric Resistance	pel	1.2 - 1.6	μΩ·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.

Bomatec | Hofstrasse 1 | Tel. +41 44 872 10 00 | Fax. +41 44 872 10 01 | contact@bomatec.ch | www.bomatec.com

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