



mate	erial	prope	rties	(typica	l values	)
	_		_		2)	

2)				
Max. Operating Temperature 2)	T max	200	°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	L	-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  $product \ shape, \ size \ and \ coating. \ Please \ contact \ Bomatec \ regarding \ specific \ requirements \ for \ your \ application.$ 

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.