

material	nronerties	(typical values)	

Max. Operating Temperature 2)	T max	180	°C	
iviax. Operating remperature	I IIIdX	100	-	
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˙m	
Specific Heat Capacity	С	440	J/(kg·K)	
Thermal Conductivity	λ	8.0 - 10.0	W/m <sup>·</sup> K	

-0.48 ~ -0.63

%/°C

β HcJ nom

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

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