

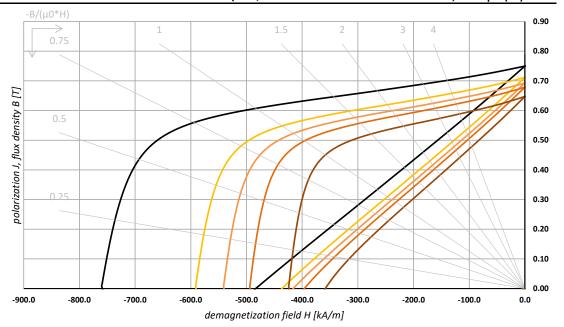
Temperature in [°C]:



20.0

NdFeB bonded, isotropic (EP)

150.0



magnetic properties					
Remanence 20°C	Br min	0.700	T	7.0	kG
	Br nom	0.750	Т	7.5	kG
Coercitivity 20°C	HcB min	430	kA/m	5.4	kOe
	HcB nom	480	kA/m	6.0	kOe
Intrinsic Coercitivity 20°C	HcJ min	680	kA/m	8.5	kOe
	HcJ nom	760	kA/m	9.6	kOe
Maximum Energy Product 20°C	BH max, min	75	kJ/m³	9.4	MGOe
	BH max, nom	88	kJ/m³	11.1	MGOe
Reversible Temperature Coefficient ¹⁾	α Br nom	-0.090 ~ -0.110	%/°C		
	β HcJ nom	-0.33 ~ -0.38	%/°C		
material properties (typical values)					
Max. Operating Temperature ²⁾	T max	160	°C		
Density	ρ	6.15	g/cm ³		

100.0

120.0

80.0

Density	ρ	6.15	g/cm ³	
Permeability 20°C	μr	1.30 - 1.40		
Vickers Hardness		35 - 45	HV	
Modulus of Elasticity	E	8 - 16	kN/mm ²	
Copressive Strength		-	N/mm ²	
Flexural Strength		50-100	N/mm ²	
Expansion Coefficient		10.0 - 30.0	10 ⁻⁶ /K	
Expansion Coefficient in direction of	1	-	10 ⁻⁶ /K	
anisotropy	//	-	10 ⁻⁶ /K	
Specific Electric Resistance	pel	15 - 50	μΩ˙m	
Specific Heat Capacity	С	-	J/(kg [·] K)	
Thermal Conductivity	λ	2	W/m [·] K	

¹⁾ 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

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