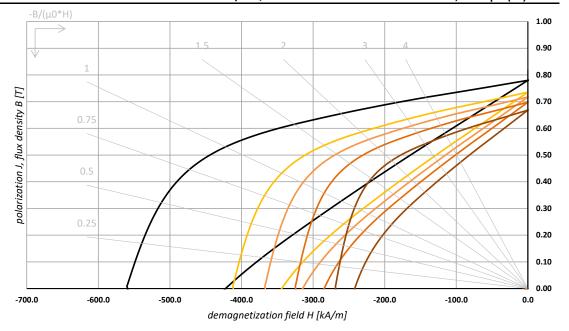


BMNpi-75/48 NdFeB bonded, isotropic (EP)



Temperature in [°C]: 20.0 80.0 100.0 120.0 150.0

remperature in [e].		100.0	120.0	130.0	
magnetic properties					
Remanence 20°C	Br min	0.720	Т	7.2	kG
	Br nom	0.780	T	7.8	kG
Coercitivity 20°C	HcB min	350	kA/m	4.4	kOe
	HcB nom	440	kA/m	5.5	kOe
Intrinsic Coercitivity 20°C	HcJ min	480	kA/m	6.0	kOe
	HcJ nom	560	kA/m	7.0	kOe
Maximum Energy Product 20°C	BH max, min	75	kJ/m³	9.4	MG0e
	BH max, nom	91	kJ/m³	11.4	MG0e
Reversible Temperature Coefficient 1)	α Br nom	-0.090 ~ -0.110	%/°C		
Reversible remperature coefficient	β HcJ nom	-0.38 ~ -0.45	%/°C		
material properties (typical values)					
Max. Operating Temperature 2)	T max	150	°C		
Density	ρ	6.15	g/cm ³		
Permeability 20°C	μr	1.45 - 1.55			
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	ρel	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.