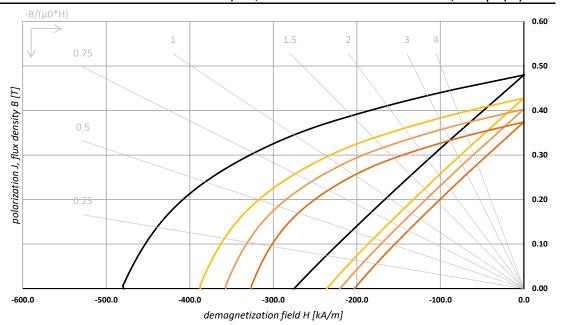




NdFeB bonded, isotropic (EP)



Temperature in [°C]: 20.0 80.0 100.0 120.0

magnetic properties					
Remanence 20°C	Br min	0.400	Т	4.0	kG
	Br nom	0.480	Т	4.8	kG
Coercitivity 20°C	HcB min	230	kA/m	2.9	kOe
	HcB nom	280	kA/m	3.5	kOe
Intrinsic Coercitivity 20°C	HcJ min	400	kA/m	5.0	kOe
	HcJ nom	480	kA/m	6.0	kOe
Maximum Energy Product 20°C	BH max, min	24	kJ/m³	3.0	MGOe
	BH max, nom	36	kJ/m³	4.5	MGOe
Reversible Temperature Coefficient ¹⁾	α Br nom	-0.180 ~ -0.250	%/°C		
	β HcJ nom	-0.29 ~ -0.34	%/°C		
material properties (typical values)					
Max. Operating Temperature 2)	T max	120	°C		
Density	ρ	5.95	g/cm ³		
Permeability 20°C	μr	1.30 - 1.45			
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	<u></u>	-	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.

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