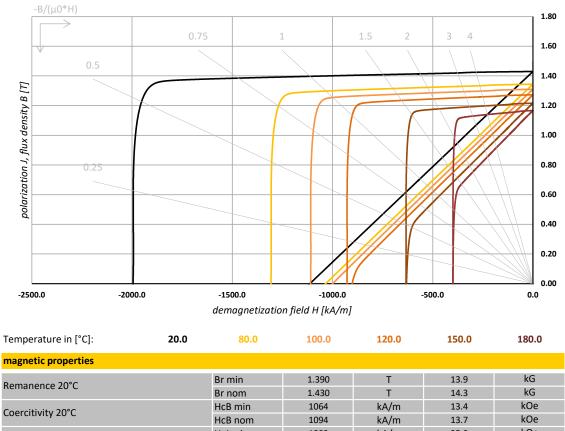


NdFeB sintered, corrosion & temperature stable



Remanence 20°C	DI IIIIII	1.550	•	13.3	NO.
	Br nom	1.430	Т	14.3	kG
Coercitivity 20°C	HcB min	1064	kA/m	13.4	kOe
	HcB nom	1094	kA/m	13.7	kOe
Intrinsic Coercitivity 20°C	HcJ min	1989	kA/m	25.0	kOe
	HcJ nom	1995	kA/m	25.1	kOe
Maximum Energy Product 20°C	BH max, min	377	kJ/m³	47.4	MGOe
	BH max, nom	399	kJ/m³	50.1	MGOe
Reversible Temperature Coefficient ¹⁾	α Br nom	-0.095 ~ -0.115	%/°C		
	β HcJ nom	-0.48 ~ -0.63	%/°C		
material properties (typical values)					
Max. Operating Temperature 2)	T max	180	°C		
Density	ρ	7.55	g/cm ³		
Permeability 20°C	μr	1.05			
Vickers Hardness		500 - 600	HV		
Modulus of Elasticity	E	150 - 200	kN/mm ²		
Modulus of Elasticity Copressive Strength	E				
•	E	150 - 200	kN/mm ²		
Copressive Strength	E	150 - 200 1000 - 1100	kN/mm ² N/mm ²		
Copressive Strength Flexural Strength	E	150 - 200 1000 - 1100	kN/mm ² N/mm ² N/mm ²		
Copressive Strength Flexural Strength Expansion Coefficient	E 	150 - 200 1000 - 1100 250	kN/mm ² N/mm ² N/mm ² 10 ⁻⁶ /K		

ρel

Note:

Specific Electric Resistance

Specific Heat Capacity

Thermal Conductivity

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.

1.2 - 1.6

440

8.0 - 10.0

μΩ·m

 $J/(kg^{\cdot}K)$

W/m[·]K

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

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