



demagnetization field H [kA/m]

Temperature in [°C]:	20.0	80.0	100.0	120.0	150.0
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magnetic properties					
Remanence 20°C	Br min	1.460	Т	14.6	kG
	Br nom	1.490	T	14.9	kG
Coercitivity 20°C	HcB min	1112	kA/m	14.0	kOe
	HcB nom	1130	kA/m	14.2	kOe
Intrinsic Coercitivity 20°C	HcJ min	1592	kA/m	20.0	kOe
	HcJ nom	1595	kA/m	20.0	kOe
Maximum Energy Product 20°C	BH max, min	418	kJ/m³	52.5	MG0e
	BH max, nom	435	kJ/m³	54.6	MGOe
Reversible Temperature Coefficient 1)	α Br nom	-0.100 ~ -0.120	%/°C		
Reversible Temperature Coefficient	β HcJ nom	-0.55 ~ -0.66	%/°C		
material properties (typical values)					
Max. Operating Temperature ²⁾	T max	150	°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		
Copressive Strength		1000 - 1100	N/mm ²		
Flexural Strength		250	N/mm ²		
Expansion Coefficient		-	10 ⁻⁶ /K		
Expansion Coefficient in direction of	1	-3 - 0	10 ⁻⁶ /K		
anisotropy	//	4 - 9	10 ⁻⁶ /K		
Specific Electric Resistance	ρel	1.2 - 1.6	μΩ [·] m		
Specific Heat Capacity	С	440	J/(kg [·] K)		
Thermal Conductivity	λ	8.0 - 10.0	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.