



-200.0

-150.0

-100.0

-50.0

-250.0

demagnetization field H [kA/m]

-300.0

Temperature in [°C]:	20.0	-40.0	100.0	150.0	200.0	
magnetic properties						
Remanence 20°C		Br min	0.380	Т	3.8	kG
Remanence 20 C		Br nom	0.390	Т	3.9	kG
Coercitivity 20°C		HcB min	229	kA/m	2.9	kOe
Coercitivity 20 C		HcB nom	239	kA/m	3.0	kOe
Intrinsic Coercitivity 20°C		HcJ min	234	kA/m	2.9	kOe
		HcJ nom	245	kA/m	3.1	kOe
Maximum Energy Product 20°C		BH max, min	27.2	kJ/m³	3.4	MGOe
		BH max, nom	28.6	kJ/m³	3.6	MGOe
Reversible Temperature Coefficient 1)		α Br nom	-0.200	%/°C		
		β HcJ nom	0.300	%/°C		
material properties (typical v	values)					
Max. Operating Temperature	2)	T max	250	°C		
Density		ρ	4.95	g/cm ³		
Permeability 20°C		μr	1.1			
Vickers Hardness			500-600	HV		
Modulus of Elasticity		E	15 - 200	kN/mm ²		
Copressive Strength			600 - 700	N/mm ²		
Flexural Strength			55	N/mm ²		
Expansion Coefficient			-	10 ⁻⁶ /K		
Expansion Coefficient in direct	ction of	_	10.0 - 11.0	10 ⁻⁶ /K		
anisotropy		//	12.0 - 13.0	10 ⁻⁶ /K		
Specific Electric Resistance		ρel	1000000000	μΩ˙m		
Specific Heat Capacity		С	700	J/(kg [·] K)		
Thermal Conductivity		λ	4	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:

-450.0

-400.0

-350.0

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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0.00

0.0

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