

Temperature in [°C]:	20.0	-40.0	100.0	150.0	200.0	
magnetic properties						
Remanence 20°C		Br min	0.420	Т	4.2	kG
Remanence 20 C		Br nom	0.430	T	4.3	kG
Coercitivity 20°C		HcB min	242	kA/m	3.0	kOe
		HcB nom	263	kA/m	3.3	kOe
Intrinsic Coercitivity 20°C		HcJ min	270	kA/m	3.4	kOe
		HcJ nom	300	kA/m	3.8	kOe
Maximum Energy Product 20°C		BH max, min	32.4	kJ/m ³	4.1	MG0e
		BH max, nom	34.2	kJ/m³	4.3	MG0e
Reversible Temperature Coefficient 1)		α Br nom	-0.200	%/°C		
		β HcJ nom	0.300	%/°C		
material properties (typical val	ues)					
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 direction	on of	1	10.0 - 11.0	10 ⁻⁶ /K		
anisotropy		//	12.0 - 13.0	10 ⁻⁶ /K		
Specific Electric Resistance		pel	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:

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.