

Temperature in [°C]: 20.0 80.0 100.0 120.0

Br min	0.300	T	3.0	kG
Br nom	0.375	Т	3.8	kG
HcB min	160	kA/m	2.0	kOe
HcB nom	225	kA/m	2.8	kOe
HcJ min	320	kA/m	4.0	kOe
HcJ nom	440	kA/m	5.5	kOe
BH max, min	12	kJ/m³	1.5	MGOe
BH max, nom	22	kJ/m³	2.8	MG0e
α Br nom	-0.190 ~ -0.260	%/°C		
β HcJ nom	-0.29 ~ -0.32	%/°C		
T max	120	°C		
ρ	5.35	g/cm ³		
μr	1.30 - 1.50			
	35 - 45	HV		
E	8 - 16	kN/mm ²		
	-	N/mm ²		
	50-100	N/mm ²		
	10.0 - 30.0	10 ⁻⁶ /K		
<u></u>	-			
//	-			
ρel	15 - 50	μΩ˙m		
С	-	J/(kg [·] K)		
λ	2	W/m [·] K		
	Br nom HcB min HcB nom HcJ min HcJ nom BH max, min BH max, nom α Br nom β HcJ nom T max ρ μr E	Br nom 0.375 HcB min 160 HcB nom 225 HcJ min 320 HcJ nom 440 BH max, min 12 BH max, nom 22 α Br nom -0.190 ~ -0.260 β HcJ nom -0.29 ~ -0.32 T max 120 ρ 5.35 μr 1.30 - 1.50 35 - 45 E 8 - 16 - 50-100 10.0 - 30.0 ⊥ /// ρel 15 - 50 c -	Br nom 0.375 T HcB min 160 kA/m HcB nom 225 kA/m HcJ min 320 kA/m HcJ nom 440 kA/m BH max, min 12 kJ/m³ BH max, nom 22 kJ/m³ α Br nom -0.190 ~-0.260 %/°C β HcJ nom -0.29 ~-0.32 %/°C T max 120 °C ρ 5.35 g/cm³ μr 1.30 - 1.50 E 8 - 16 kN/mm² - N/mm² 50-100 N/mm² 10.0 - 30.0 10 6/k J // - 10 6/k // - 10 6/k pel 15 - 50 μΩ m C 160 kA/m HcJ min 440 kA/m A May 120 kA/m A BH max, nom 22 kJ/m³ BH max, nom 22 kJ/m³ β γ γ C γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ	Br nom 0.375 T 3.8 HcB min 160 kA/m 2.0 HcB nom 225 kA/m 2.8 HcJ min 320 kA/m 4.0 HcJ nom 440 kA/m 5.5 BH max, min 12 kJ/m³ 1.5 BH max, nom 22 kJ/m³ 2.8 α Br nom -0.190 ~-0.260 %/°C β HcJ nom -0.29 ~-0.32 %/°C T max 120 °C ρ 5.35 g/cm³ μr 1.30 - 1.50 35 - 45 HV E 8 - 16 kN/mm² - N/mm² 50-100 N/mm² 10.0 - 30.0 10 6/K J// - 10 6/K /// - 10 6/K pel 15 - 50 μΩ m c - J/(kg 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.