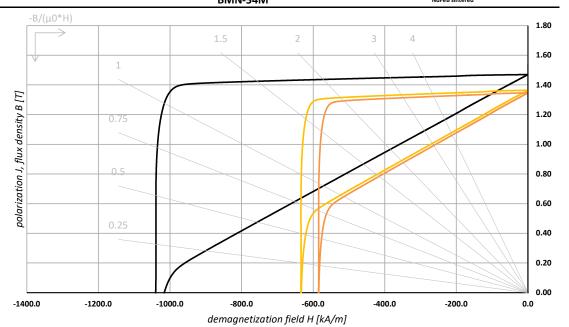


BMN-54M NdFeB sintered



Temperature in [°C]: 20.0 80.0 90.0

Br min	1.440	Т	14.4	kG
Br nom	1.470	T	14.7	kG
HcB min	1015	kA/m	12.8	kOe
HcB nom	1025	kA/m	12.9	kOe
HcJ min	1035	kA/m	13.0	kOe
HcJ nom	1040	kA/m	13.1	kOe
BH max, min	406	kJ/m³	51.0	MG0e
BH max, nom	423	kJ/m³	53.1	MG0e
α Br nom	-0.100 ~ -0.120	%/°C		
β HcJ nom	-0.61 ~ -0.70	%/°C		
T max	90	°C		
ρ	7.55	g/cm ³		
μr	1.05			
	500 - 600	HV		
E	150 - 200	kN/mm ²		
	1000 - 1100	N/mm ²		
	250	N/mm ²		
	-	10 ⁻⁶ /K		
<u></u>	-3 - 0	10 ⁻⁶ /K		
//	4 - 9	10 ⁻⁶ /K		
ρel	1.2 - 1.6	μΩ˙m		
С	440	J/(kg [·] K)		
λ	8.0 - 10.0	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 1.470 HcB min 1015 HcB nom 1025 HcJ min 1035 HcJ nom 1040 BH max, min 406 BH max, nom 423 α Br nom -0.100 ~ -0.120 β HcJ nom -0.61 ~ -0.70 T max 90 ρ 7.55 μr 1.05 500 - 600 E 150 - 200 1000 - 1100 250 - 1 /// 4 - 9 ρel 1.2 - 1.6 c 440	Br nom 1.470 T HcB min 1015 kA/m HcB nom 1025 kA/m HcJ min 1035 kA/m HcJ nom 1040 kA/m BH max, min 406 kJ/m³ BH max, nom 423 kJ/m³ α Br nom -0.100 ~ -0.120 %/°C β HcJ nom -0.61 ~ -0.70 %/°C T max 90 °C ρ 7.55 g/cm³ μr 1.05 E 150 - 200 kN/mm² 1000 - 1100 N/mm² 250 N/mm² - 10 6/K - 3 - 0 10 6/K // 4 - 9 10 6/K ρel 1.2 - 1.6 μΩ m - 1025 kA/m HcJ nom 1035 kA/m Rayman Rayman T max 90 °C Royman T max 90 °C All 106 f/K All 107 f/K Al	Br nom 1.470 T 14.7 HcB min 1015 kA/m 12.8 HcB nom 1025 kA/m 12.9 HcJ min 1035 kA/m 13.0 HcJ nom 1040 kA/m 13.1 BH max, min 406 kJ/m³ 51.0 BH max, nom 423 kJ/m³ 53.1 α Br nom -0.100 ~ -0.120 %/°C β HcJ nom -0.61 ~ -0.70 %/°C T max 90 °C ρ 7.55 g/cm³ μr 1.05 T max 90 kN/mm² 1.05 E 150 - 200 kN/mm² 1000 - 1100 N/mm² 250 N/mm² - 10-6/K - 3 - 0 10-6/K /// 4 - 9 10-6/K ρel 1.2 - 1.6 μΩ'm c 440 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.