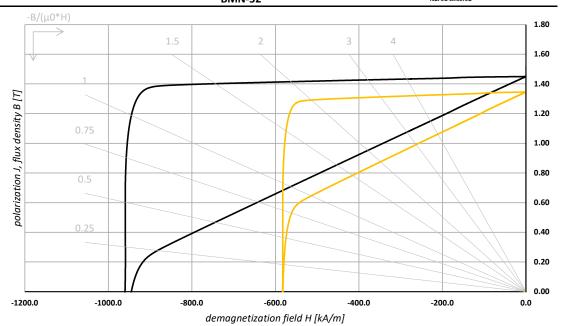


BMN-52 NdFeB sintered



Temperature in [°C]: **20.0** 80.0

magnetic properties					
Remanence 20°C	Br min	1.420	Т	14.2	kG
	Br nom	1.450	Т	14.5	kG
Coercitivity 20°C	HcB min	935	kA/m	11.7	kOe
	HcB nom	945	kA/m	11.9	kOe
Intrinsic Coercitivity 20°C	HcJ min	955	kA/m	12.0	kOe
	HcJ nom	960	kA/m	12.1	kOe
Maximum Energy Product 20°C	BH max, min	393	kJ/m³	49.4	MGOe
	BH max, nom	410	kJ/m³	51.5	MGOe
Reversible Temperature Coefficient 1)	α Br nom	-0.100 ~ -0.120	%/°C		
	β HcJ nom	-0.64 ~ -0.70	%/°C		
material properties (typical values)					
Max. Operating Temperature 2)	T max	80	°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	<u></u>	-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.