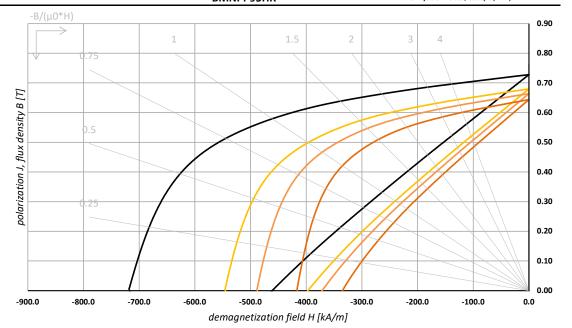


NdFeB injection molded, isotropic (PA12)



Temperature in [°C]: 20.0 80.0 100.0 125.0

magnetic properties					
Remanence 20°C	Br min	0.706	Т	7.1	kG
	Br nom	0.728	Т	7.3	kG
Coercitivity 20°C	HcB min	421	kA/m	5.3	kOe
	HcB nom	441	kA/m	5.5	kOe
Intrinsic Coercitivity 20°C	HcJ min	701	kA/m	8.8	kOe
	HcJ nom	718	kA/m	9.0	kOe
Maximum Energy Product 20°C	BH max, min	77.2	kJ/m³	9.7	MG0e
	BH max, nom	81.1	kJ/m³	10.2	MG0e
Reversible Temperature Coefficient 1)	α Br nom	-0.110	%/°C		
	β HcJ nom	-0.400	%/°C		
material properties (typical values)					
Max. Operating Temperature ²⁾	T max	125	°C		
Density	ρ	6	g/cm ³		
Permeability 20°C	μr	1.16			
Flexural Strength		ca. 56	Мра		

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.