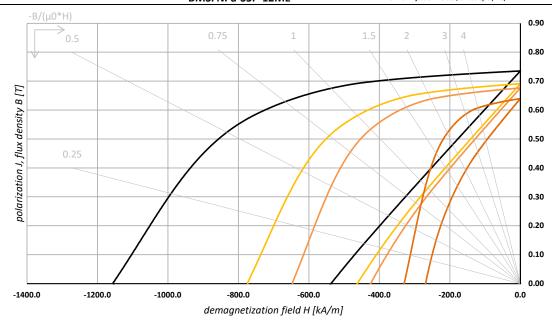


BMSFNPa-S5P-12ME

SmFeN injection molded, anisotropic (PPS)



Temperature in [°C]:	20.0	80.0	100.0	150.0		
magnetic properties						
Remanence 20°C		Br min	0.710	Т	7.1	kG
		Br nom	0.735	Т	7.4	kG
Coercitivity 20°C		HcB min	475	kA/m	6.0	kOe
		HcB nom	515	kA/m	6.5	kOe
Intrinsic Coercitivity 20°C		HcJ min	1115	kA/m	14.0	kOe
		HcJ nom	1155	kA/m	14.5	kOe
Maximum Energy Product 20°C		BH max, min	91	kJ/m ³	11.4	MGOe
		BH max, nom	95	kJ/m ³	11.9	MGOe
Reversible Temperature Coefficient 1)		α Br nom	-0.100	%/°C		
		β HcJ nom	-0.550	%/°C		
material properties (typical	values)					
Max. Operating Temperature	e ²⁾	T max	180	°C		
Density		ρ	5.1	g/cm ³		
Permeability 20°C		μr	1.1			
Flexural Strength			52	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.