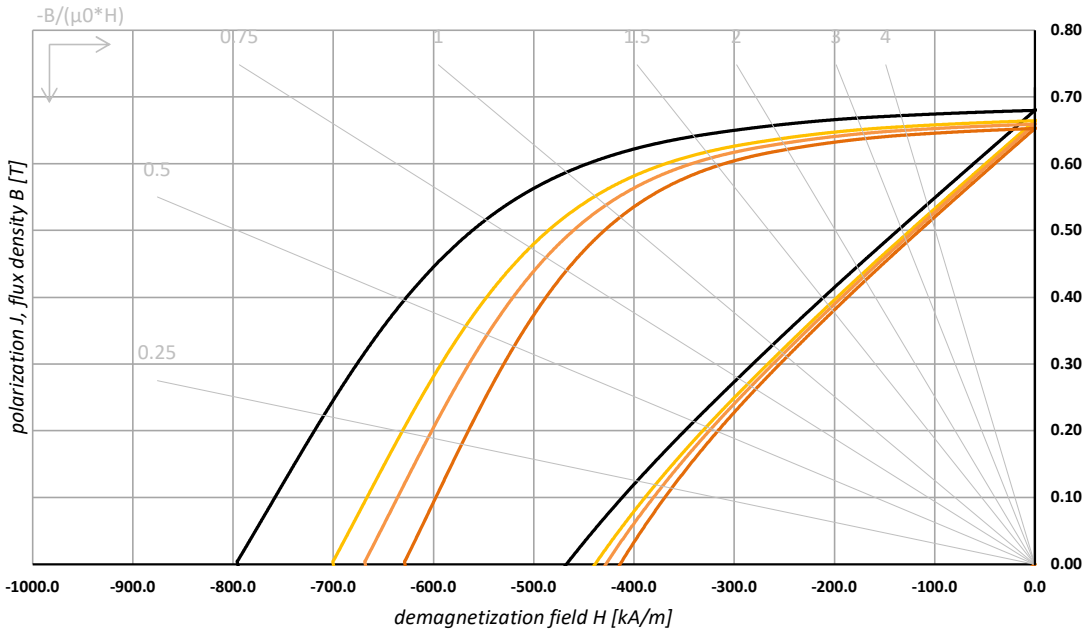
BOMATEC
MORE THAN JUST MAGNETS

BMSCPa-8211

SmCo injection molded, anisotropic (PA12)



Temperature in [°C]: **20.0** 80.0 100.0 125.0

magnetic properties					
Remanence 20°C	Br min	0.660	T	6.6	kG
	Br nom	0.680	T	6.8	kG
Coercitivity 20°C	HcB min	432	kA/m	5.4	kOe
	HcB nom	472	kA/m	5.9	kOe
Intrinsic Coercitivity 20°C	HcJ min	637	kA/m	8.0	kOe
	HcJ nom	796	kA/m	10.0	kOe
Maximum Energy Product 20°C	BH max, min	81.9	kJ/m^3	10.3	MGOe
	BH max, nom	85.9	kJ/m^3	10.8	MGOe
Reversible Temperature Coefficient [1)]	α Br nom	-0.038	%/°C		
	β HcJ nom	-0.200	%/°C		
material properties (typical values)					
Max. Operating Temperature [2)]	T max	125	°C		
Density	ρ	6.12	g/cm^3		
Permeability 20°C	μr	1.05			
Flexural Strength		ca. 64	Mpa		

1) The shown temperature coefficients are nominal reference values only . They can vary for different temperatures and don't need to be linear.

2) The maximum operating temperature is depending on the magnet shape, size and on the specific application.

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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