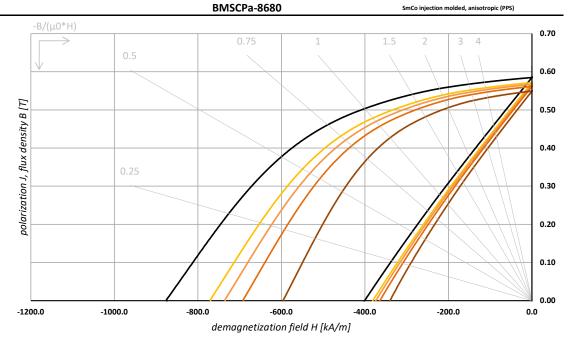


SmCo injection molded, anisotropic (PPS)



Temperature in [°C]:	20.0	80.0	100.0	125.0	180.0	
magnetic properties						
Remanence 20°C		Br min	0.540	Т	5.4	kG
Nemanence 20 C		Br nom	0.585	Т	5.9	kG
Coercitivity 20°C		HcB min	380	kA/m	4.8	kOe
		HcB nom	410	kA/m	5.2	kOe
Intrinsic Coercitivity 20°C		HcJ min	800	kA/m	10.1	kOe
		HcJ nom	875	kA/m	11.0	kOe
Maximum Energy Product 20°C		BH max, min	55	kJ/m³	6.9	MGOe
		BH max, nom	65	kJ/m³	8.2	MGOe
Reversible Temperature Coefficient 1)		α Br nom	-0.038	%/°C		
		β HcJ nom	-0.200	%/°C		
material properties (typical	values)					
Max. Operating Temperatur	e ²⁾	T max	180	°C		
Density		ρ	5.42	g/cm ³		
Permeability 20°C		μr	1.09			
Flexural Strength			ca.65	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.